



REMEDIAL ACTION QUARTERLY MONITORING REPORT

THIRD QUARTER – 2009 (25 of 120)

SKINNER LANDFILL SITE BUTLER COUNTY WEST CHESTER, OHIO

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LIST OF ACRONYMS

AMP	Air Monitoring Plan
AOC	Administrative Order on Consent
ARAR	Applicable or Relevant and Appropriate Requirements
BMR	Baseline Monitor Report
BCDES	Butler County Department of Environmental Services
bgs	Below Ground Surface
BZ	Breathing Zone
CD&D	Construction Debris and Demolition Waste
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CGI	Combustible Gas Indicator
CHSD	Corporate Health and Safety Director
CIP	Construction Implementation Plan
CLP	Contract Laboratory Program
cm/sec	Centimeters Per Second
CO	Carbon Monoxide
CP	Contingency Plan
CQA	Construction Quality Assurance
CQAC	Construction Quality Assurance Consultant
CRZ	Contamination Reduction Zone
CRQL	Contract Required Quantitation Limit
CSDI	Contaminated Soils Design Investigation
CY	Cubic Yard
CZ	Control Zone
DSW	Division of Surface Water (OEPA)
DSR	Division Safety Representative
EPA	Environmental Protection Agency
EZ	Exclusion Zone
FID	Flame Ionization Detector
FML	Flexible Membrane Liner (low density polyethylene)
FSP	Field Sampling Plan
FTB	Film Tearing Bond
ft	Feet
ft/sec	Feet Per Second
GCL	Geosynthetic Clay Layer
GCAL	Gulf Coast Analytical Laboratories Inc.
GIS	Groundwater Interceptor System
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWDI	Groundwater Design Investigation
HAP	Hazardous Air Pollutant
HASP	Health and Safety Plan
HDPE	High-Density Polyethylene

HSM	Health and Safety Manager
IDLH	Immediately Dangerous to Life or Health
IRM	Interim Remedial Measures
kg/d	Kilograms Per Day
lb/day	Pounds Per Day
LEL	Lower Explosion Limit
LF	Lineal Feet
LLDPE	Linear Low-Density Polyethylene
μ	Micron
$\mu\text{g/l}$	Microgram per Liter
MSL	Mean Sea Level
NIOSH	National Institute for Occupational Safety and Health
NO _x	Oxides of Nitrogen
NWI	National Wetland Inventory
O ₃	Ozone
OAC	Ohio Administrative Code
ODNR	Ohio Department of Natural Resources
OEPA	Ohio Environmental Protection Agency
ORC	Ohio Revised Code
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PID	Photoionization Detector
PLC	Programmable Logic Controller
PM-10	Particulate Matter less than 10 microns
PRP	Potentially Responsible Party
PPE	Personal Protective Equipment
psi	Pounds Per Square Inch
PQL	Practical Quantitation Limit
QAPP	Quality Assurance Project Plan
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RA	Remedial Action
RD	Remedial Design
RHSS	Regional Health & Safety Specialist
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RPM	Remedial Project Manager (USEPA)
RPO	Resident Project Observer
SI	Site Inspection
SF	Square Feet
SLWG	Skinner Landfill Work Group
SO ₂	Sulfur Dioxide
SOP	Standard Operating Procedure
SOW	Statement of Work
SPCC	Spill Prevention Control and Counter Measure Plan

SSO	Site Safety Officer
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone
TAL	Target Analyte List
TCL	Target Compound List
TDH	Total Dynamic Head
TLV	Threshold Limit Values
TSS	Total Suspended Solids
TWA	Time Weighted Average
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey
VOC	Volatile Organic Compound
yr	Year
WBGT	Wet Bulb Globe Temperature
WZ	Work Zone

1.0 INTRODUCTION

1.1 GENERAL INFORMATION

This quarterly monitoring report was prepared for the Skinner Landfill Superfund Site located in West Chester, Butler County, Ohio in accordance with the Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003. The O&M-LTP Plan was prepared to meet the requirements of the Record of Decision (ROD) dated June 4, 1993, the Statement of Work (SOW) dated April 6, 1994, the 100% Final Remedial Design dated June 21, 1996 and the Consent Decree dated April 7, 2001.

The remedial action (RA) post-construction O&M monitoring period began with the third quarter of 2003 and extends for a period of 30 years. This report documents the results of groundwater and surface water monitoring conducted during the third quarter of 2009, which is the 25th of 120 quarterly sampling events to be conducted during the 30-year monitoring period.

1.2 SITE LOCATION AND DESCRIPTION

Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio near West Chester, Butler County, Ohio in Township 3, Section 22, Range 2. The site is located along Cincinnati-Dayton Road, as shown in Figure 1. The site is bordered on the south by the East Fork of Mill Creek, on the north by wooded land, on the east by a Norfolk Southern Railway Company right-of-way, and on the west by a gravel driveway.

The site is located in a highly dissected area that slopes from a till-mantled-bedrock upland to a broad, flat-bottomed valley that is occupied by the main branch of Mill Creek. Elevations on the site range from a high of nearly 800 feet above mean sea level (MSL) in the northeast, to a low of 645 feet above MSL near the confluence of Skinner Creek and East Fork of Mill Creek. Both Skinner Creek and the East Fork of Mill Creek are small, intermittent shallow streams. Both of these streams flow to the southwest from the site toward the main branch of Mill Creek.

In general, the site is underlain by relatively thin glacial drift over inter-bedded shale and limestone of Ordovician age. The composition of the glacial drift ranges from intermixed silt, sand and gravel, to silty sandy clays with a thickness ranging from zero to over forty feet. The sand and gravel deposits comprise the hills and ridges and are encountered near the surface of the central portion of the site. The silts and clays usually occur as lenses in the sands and gravel or directly overlie bedrock.

1.3 SITE HISTORY AND BACKGROUND

The property was originally developed as a sand and gravel mining operation and was subsequently used as a landfill from 1934 to 1990. According to USEPA studies, materials deposited at the site include demolition debris, household refuse and a wide variety of chemical wastes. The waste disposal areas include a now buried former waste lagoon near the center of the site and a landfill.

According to USEPA studies, the buried lagoon was used for the disposal of paint wastes, ink wastes, creosote, pesticides, and other chemical wastes. The landfill area, located north and northeast of the buried lagoon, received predominantly demolition and landscaping debris.

In 1976, the Ohio EPA (OEPA) initiated an investigation of the site. In 1982, the site was placed on the National Priority List by the USEPA based on information obtained during a limited investigation of the site. A Phase II Remedial Investigation was conducted from 1989 to 1991 and involved further investigation of groundwater, surface water, soils and sediments. Both a Baseline Risk Assessment and Feasibility Study (FS) were completed in 1992.

The Phase II Remedial Investigation revealed that the most contaminated media at the site is the soil in the buried waste lagoon. Migration of the landfill constituents has been limited, and the Phase II Remedial Investigation concluded that there had been no off-site migration of landfill constituents via groundwater flow.

In the Record of Decision (ROD), dated June 4, 1993, the USEPA selected a remedy for the site consisting of multi-media capping of the landfill and the buried waste lagoon, and collection and treatment of the groundwater. The ROD also required an investigation to determine the feasibility for soil vapor extraction (SVE) in the granular soil adjacent to the buried lagoon.

The Remedial Design (RD) Investigation performed in 1994 was implemented to collect data required to assess the feasibility of the SVE and to design the multi-media cap and the groundwater extraction/treatment systems. The Remedial Design was submitted to USEPA on June 21, 1996 outlining the cover design and groundwater interception system design. Based on the RD investigation, the installation of an SVE system was determined to be unfeasible.

Construction of a groundwater interception system (GIS) and engineered landfill cover system began in April 2001 and was substantially completed in September 2001. The USEPA conducted the pre-final construction inspection on September 27, 2001, the final construction inspection on March 27, 2003 and the second 5-Year Review in March 2004.

2.0 SAMPLING METHODS

This quarterly monitoring event was conducted in general accordance with the following documents shown with the date of the USEPA-approved final version:

- Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003, and
- RA Health and Safety Plan, Final February 2001.

There were no deviations from these work plans.

3.0 RESULTS

3.1 GROUNDWATER LEVELS

The groundwater elevation data obtained from the monitor wells, piezometers and selected gas probes is presented on Table 1 with the corresponding potentiometric surface map provided in Appendix A. The groundwater hydraulic gradient calculated from data collected was 0.07 ft/ft.

The average hydraulic gradient documented in the Remedial Action Baseline Monitoring Report, dated March 2005, is calculated to be 0.13 ft/ft.

3.2 GROUNDWATER-WASTE MONITORING

Historic data for piezometers P-9R to P-12R and results of the piezometer groundwater levels obtained this quarter are provided on Table 2. Based on measured water levels, the groundwater level is above the waste elevation at piezometers P-9R, P-10R, P-11R, and P-12R.

3.3 GROUNDWATER ANALYTICAL RESULTS

A summary of target compound list (TCL) and target analyte list (TAL) parameter concentrations encountered above the contract required quantitation limit (CRQL) and revised modified trigger level is provided on Table 3. A summary of the laboratory analytical results have been presented on a per well basis in Appendix B to assist in identifying temporal detection patterns. A report of each data set reduction, validation and assessment procedure conducted on an analytical-set basis in accordance with the O&M-LTP Plan quality assurance project plan (QAPP) is included in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in groundwater above the CRQL.

Of the 16 TAL parameters that have corresponding trigger levels, iron and lead were detected above the CRQL and lead was detected above the trigger level as shown on Table 3.

3.4 SURFACE WATER ANALYTICAL RESULTS

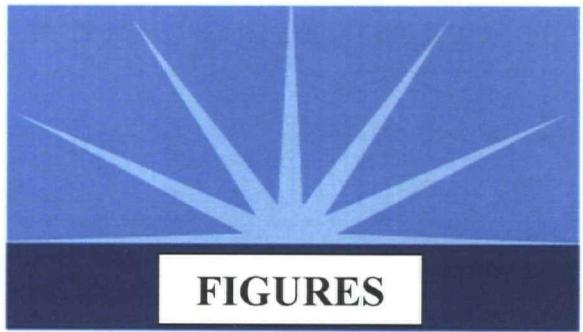
Surface water analyzed consisted of three surface water samples collected directly from the surface of the East Fork of Mill Creek (SW samples). Landfill cap surface water drainage samples (SWD samples) were not collected due to lack of flow.

A summary of TCL and TAL parameter concentrations encountered above the CRQL and revised modified trigger level is provided on Table 4. A summary of surface water laboratory analytical results is presented in Appendix B. The summary tables are presented on a sample location basis. The validated laboratory analytical data is provided in Appendix C.

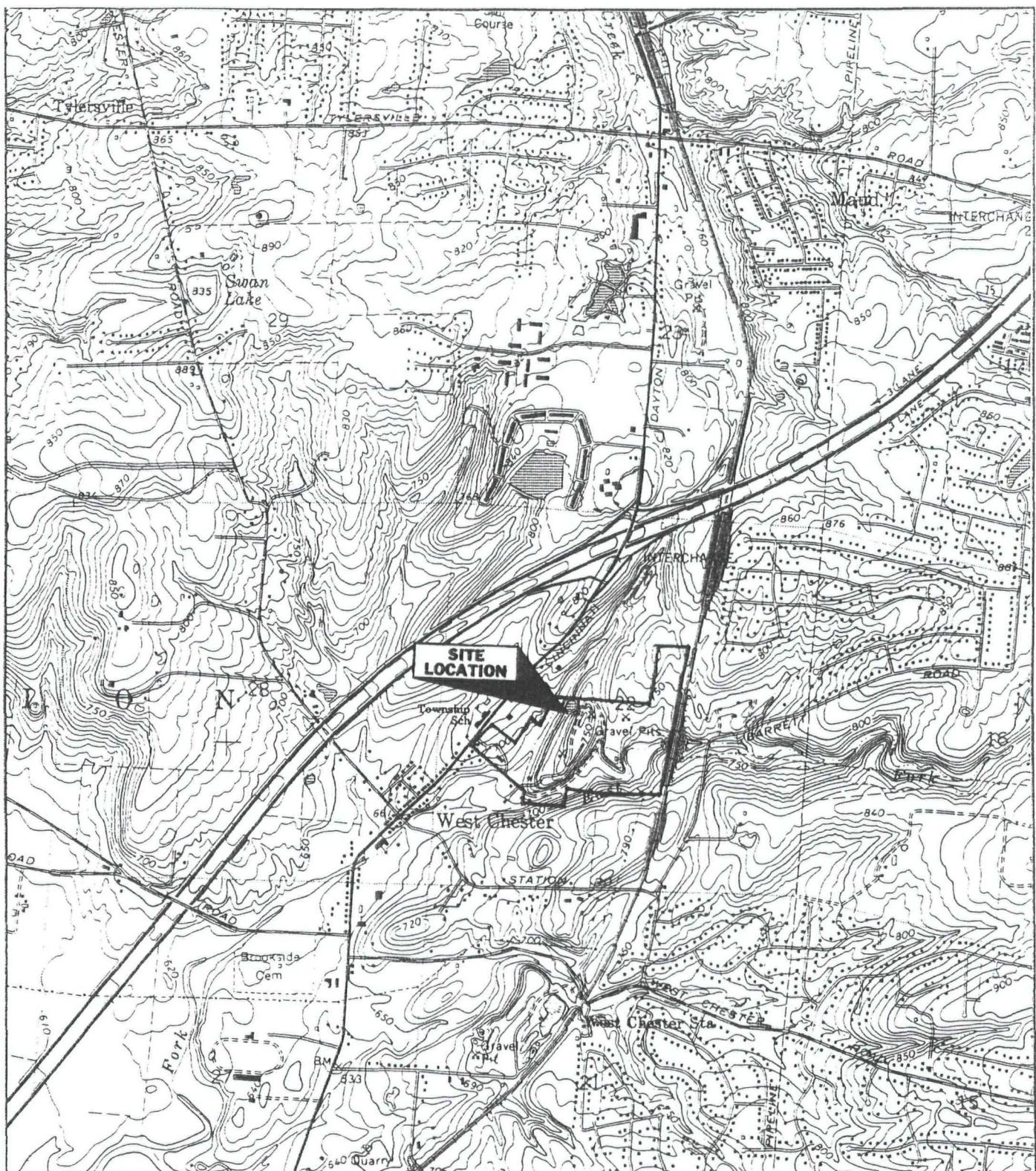
Target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in surface water above the CRQL.

3.5 GENERAL SITE OBSERVATIONS

This section provides a description of observations made in or around the 16-acre fenced area during the sampling quarter associated with other activity which may impact the project site. No site activities of interest were observed.



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Base taken from USGS Glendale, Ohio
7.5' Topographic Quadrangle, photorevised 1987



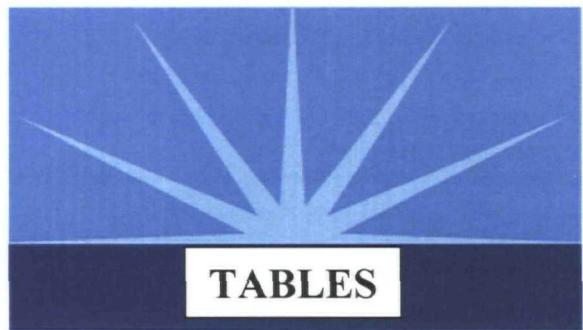
EARTH TECH



SKINNER LANDFILL

SITE VICINITY MAP

BUTLER COUNTY, OHIO



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TABLE 1
Groundwater Elevation Summary
Skinner Landfill
West Chester, Ohio

Well Type	Location	Well Use	Ground Surface Elevation (MSL-feet)	Top of Casing Elevation (MSL-feet)	September 21, 2009	
					Depth to Water (feet from top of casing)	Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	11.80	675.85
	P-2	G	688.54	690.42	13.00	677.42
	P-3R	G	691.83	693.69	25.26	668.43
	P-4	G	700.32	702.63	7.89	694.74
	P-5	G	708.20	710.65	Dry	Dry
	P-6	G	707.45	710.59	13.32	697.27
	P-7	G	719.08	721.83	Dry	Dry
	P-8	G	747.70	749.91	10.75	739.16
	P-9R	G	760.12	763.58	20.00	743.58
	P-10R	G	761.87	765.84	27.82	738.02
	P-11R	G	760.39	763.38	24.50	738.88
	P-12R	G	750.11	753.60	30.10	723.50
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	12.12	673.79
	GW-07R	S	683.46	683.06	9.15	673.91
	GW-24	G	693.32	695.21	18.90	676.31
	GW-26	G	696.61	698.28	29.35	668.93
	GW-30	G	675.63	677.62	9.45	668.17
	GW-58	S	684.03	686.53	13.70	672.83
	GW-59	S	684.35	687.38	7.70	679.68
	GW-60	S	689.12	692.38	13.86	678.52
	GW-61	S	687.38	690.86	13.00	677.86
	GW-62A	S	690.19	692.38	27.90	664.48
	GW-62B	S	690.57	693.13	12.45	680.68
	GW-63	S	698.87	702.50	10.49	692.01
	GW-64	S	700.45	703.88	12.82	691.06
	GW-65	S	703.83	706.88	16.00	690.88
	GW-66	G	686.82	689.41	8.31	681.10
Gas Probes	GP-6	G	772.18	774.65	16.10	758.55
	GP-7	G	749.83	752.65	Dry	Dry

Notes:

MSL - Mean Sea Level

G - Gauging

S - Sampling and Gauging (GW-24, 26, and 30 are sampled on an annual basis.)

P-9R, 10R, 11R, and 12R were installed December 2006 to January 2007. Replaced P-9, 10, 11, and 12.

TABLE 2
Groundwater-Waste Monitoring Summary

**Skinner Landfill
West Chester, Ohio**

Piezometer ID	P-9R	P-10R	P-11R	P-12R	Comments
Grade Elevation (feet)	760.12	761.87	760.39	750.11	
Bottom of Waste Elevation (MSL-feet)	731.92	729.87	728.00	722.61	
Depth to Bottom of Waste (feet)	28.20	32.00	32.39	27.50	
Groundwater Elevation (ft):	22-Jan-07	747.70	739.52	734.04	721.24 BASELINE
	02-Mar-07	748.03	740.60	735.68	718.17 1st Q 2007
	11-Jun-07	746.34	751.34*	737.08	716.70 2nd Q 2007
	04-Sep-07	736.49	737.73	733.49	712.61 3rd Q 2007
	17-Dec-07	745.36	736.92	731.13	714.31 4th Q 2007
	10-Mar-08	747.61	739.04	733.71	717.42 1rst Q 2008
	02-Jun-08	748.06	740.44	739.15	719.10 2nd Q 2008
	16-Sep-08	743.09	738.64	735.98	714.85 3rd Q 2008
	01-Dec-08	736.46	737.52	733.38	712.40 4th Q 2008
	18-Feb-09	745.77	738.00	731.92	715.45 1rst Q 2009
	08-Jun-09	745.64	738.74	733.48	716.75 2nd Q 2009
	21-Sep-09	743.58	738.02	738.88	723.50 3rd Q 2009

Notes:

Bottom-of-Waste elevations determined during installation of new piezometers from 12/6/06 through 12/11/06.

Shaded cells indicate water level elevations below the elevation of waste.

* Groundwater Elevation suspect.

TABLE 3
Groundwater Test Results Summary

**Skinner Landfill
 West Chester, Ohio
 Third Quarter 2009**

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
GW-06R	—	—	<i>Iron</i>	—
GW-07R	—	—	<i>Iron</i>	—
GW-58	—	—	—	—
GW-59	—	—	Lead	—
GW-60	—	*	<i>Iron</i>	*
GW-61	—	—	Lead	—
GW-62A	—	—	—	—
GW-62B	*	*	*	*
GW-63	—	—	—	—
GW-64	—	—	—	—
GW-65	—	*	*	*
GW-24 (Perimeter Well)			Not Sampled (Annual)	
GW-26 (Perimeter Well)			Not Sampled (Annual)	
GW-30 (Perimeter Well)			Not Sampled (Annual)	

Notes:

— : all parameters below report limits

italic : above Contract Required Quantitation Levels (CRQL's)

bold : above trigger level

* : Insufficient sample volume or location dry.

** : Dissolved metals for analytes that have a corresponding trigger level.

TABLE 4
Surface Water Test Results Summary

**Skinner Landfill
 West Chester, Ohio
 Third Quarter 2009**

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
SW-50	—	—	—	—
SW-51	—	—	—	—
SW-52	—	—	—	—
SWD-1	*	*	*	*
SWD-2	*	*	*	*
SWD-3	*	*	*	*

Notes:

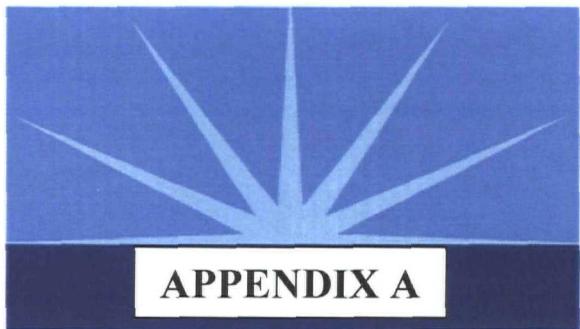
— : all parameters below report limits

italic : above Contract Required Quantitation Levels (*CRQL's*)

bold : above trigger level

* : Insufficient sample volume or location dry.

** : Dissolved metals for analytes that have a corresponding trigger level.



**POTENTIOMETRIC
SURFACE MAP**

APPENDIX A

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SDMS US EPA Region V

Imagery Insert Form



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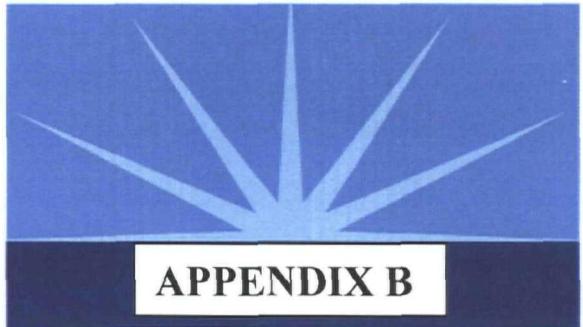
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SUMMARY OF ANALYTICAL RESULTS

APPENDIX B

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Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-06R

Compound	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	TRIGGER LEVEL	CRQL		
Quarterly Sampling Results (All Results Expressed in Units of µg/l)													
Inorganics - Metals (Dissolved)¹⁴													
Aluminum	15.4 U	15.4 U	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	60.7 B		200		
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60			
Arsenic	4.0 U	2.4 U	2.4 U	2.5 U	2.5 U	2.7 B	3.6 U	3.6 U	3.6 UJ	20	10		
Barium	219 J	144 B	199 B	211 J	168 B	195 B	146 B	199 B	198 B	1,000	200		
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	5	5		
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.6 B	0.3 B	5	5		
Calcium	166,000	214,000	199,000	180,000 J	229,000	164,000 J	223,000	215,000	208,000		5,000		
Chromium	1.8 B	2.1 B	0.30 U	2.1 B	0.20 U	0.20 U	2.7 B	1.1 B	0.4 UJ	11	10		
Cobalt	0.40 B	3.90 B	0.20 U	0.50 B	1.4 B	0.30 U	0.5 U	1.3 B	0.5 U		50		
Copper	2.1 B	4.6 B	2.3 B	3.0 B	1.2 B	0.60 U	5.3 B	6.0 B	5.9 B	25	25		
Iron	358	139	69.6 B	586	60.0 B	8.1 U	24.8 B	361	291	7,000	100		
Lead	0.90 B	0.80 U	1.0 B	2.4 B	1.2 B	1.2 U	1.6 UJ	1.6 U	2.7 J	4.2	3		
Magnesium	29,100	35,500	35,800	34,200 J	43,600 J	29,500 J	39,700	38,000	36,400		5,000		
Manganese	262	364	6.5 B	132.0	451 J	226	19.0	64.9	41.1 J		15		
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2	0.2		
Nickel	0.60 B	2.2 B	0.40 U	0.40 U	0.40 B	0.40 U	0.4 U	1.1 B	0.8 B	96	40		
Potassium	2,520 B	2,710 J	2,180 B	2,460 B	5,400	2,420 J	2,370 B	2,330 B	2,800		5,000		
Selenium	3.9 UJ	3.9 R	3.9 U	3.1 U	3.1 UJ	3.1 UJ	4.3 J	3.3 U	3.3 U	8.5	5		
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.3 B	0.5 U	0.5 U	10	10		
Sodium	17,800	22,400	19,400	17,300 J	29,900 J	16,000 J	20,300	20,800	20,300		5,000		
Thallium	2.9 B	1.7 U	4.7 B	1.8 U	1.9 B	1.8 U	1.5 R	2.1 J	1.5 UJ	40	10		
Vanadium	7.6 B	11.0 J	1.0 U	10.4 B	12.0 B	3.2 B	1.0 U	4.1 B	1.0 U		50		
Zinc	10.8 B	7.5 J	9.0 B	15.2 B	0.50 U	0.50 UJ	4.3 U	4.9 B	4.3 U	86	20		
Inorganics - Metals and Cyanide (Total)													
Aluminum	3,720 J	2,670	141 J	457	1,190	11,500 J	178 J	161 B	303 J				
Antimony	2.4 U	2.4 UJ	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U				
Arsenic	2.5 U	2.4 U	2.4 UJ	2.5 UJ	6.8 B	11.1	3.6 U	3.6 U	3.6 UJ				
Barium	283 J	183 B	195 B	214 J	251 J	313 J	144 J	197 B	202				
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U				
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.6 B	0.4 B				
Calcium	210,000	240,000	197,000	173,000 J	235,000 J	303,000 J	235,000	201,000	205,000				
Chromium	8.5 B	7.9 J	0.60 B	3.1 B	0.20 U	15.9	2.9 B	1.7 B	0.4 UJ				
Cobalt	3.7 B	5.0 B	0.30 B	0.90 B	3.0 B	11.5 B	0.5 U	0.9 B	0.5 U				
Copper	14.4 B	0.70 J	5.40 B	5.3 B	6.0 B	23.7 B	6.7 B	6.2 B	6.6 B				
Cyanide	3.5 B	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.2 U	0.2 U	1.6 U	10	10		
Iron	9,420 J	8,000	523	2,090	4,050 J	25,500	465	412 J	954 J				
Lead	12.3	5.9 J	0.80 UJ	3.4	4.8	21.1	1.6 UJ	1.6 U	3.7 J				
Magnesium	48,200	50,100	35,600	34,300 J	475,000 J	88,000 J	41,500	36,500	36,100				
Manganese	482 J	410	19.3	106.0	535 J	748	21.7	40.1 J	44.6				
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U				
Nickel	8.4 B	7.1 J	0.40 U	0.40 B	1.9 B	21.8 B	0.4 U	0.6 B	0.7 B				
Potassium	3,270 J	3,240 B	2,220 J	2,480.0 B	3,010 J	4,840 J	2,390 J	2,130 B	2,800 J				
Selenium	3.9 R	3.9 UJ	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U				
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.5 B	0.5 U	0.5 U				
Sodium	18,300 J	22,400	18,700	17,000 J	18,000 J	16,400 J	23,800	19,300	19,500				
Thallium	2.1 B	1.7 U	2.2 B	1.8 U	1.8 U	1.8 U	1.5 UJ	2.7 J	1.5 UJ				
Vanadium	20.4 B	17.1 J	1.0 U	12.4 B	14.5 B	31.7 B	1.0 U	4.7 B	1.0 U				
Zinc	40.8	25.6 J	11.5 J	20.7	4.8 B	67.7 J	4.3 U	4.3 U	4.3 U				
Volatile Organic Compounds (VOCs)													
Semi-Volatile Organic Compounds (SVOCs)													
Pesticides / PCBs													

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-07R

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)											TRIGGER LEVEL	CRQL
	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴		Insufficient Volume					Insufficient Volume						
Aluminum	15.4 U	—	15.4 U	16.4 B	15.3 U	15.3 U	—	26.9 U	26.9 U	29.1 B		200	
Antimony	2.4 U	—	2.4 U	2.4 U	1.6 U	1.6 U	—	4.8 U	4.8 U	4.8 U	60	60	
Arsenic	2.4 U	—	2.4 U	2.9 B	2.5 U	2.5 U	—	3.6 U	3.6 U	3.6 UJ	20	10	
Barium	92.6 B	—	62.8 B	93.2 B	88.0 J	59.3 B	—	41.8 B	54.6 B	47.0 B	1,000	200	
Beryllium	0.10 U	—	0.10 U	0.10 U	0.10 U	0.10 U	—	2.3 U	2.3 U	2.3 U	5	5	
Cadmium	0.10 U	—	0.10 U	0.10 U	0.10 U	0.10 U	—	0.2 U	0.2 U	0.2 U	5	5	
Calcium	206,000	—	207,000	165,000	175,000 J	270,000	—	191,000	245,000	292,000		5,000	
Chromium	1.4 B	—	1.9 B	0.3 U	2.0 B	0.2 U	—	2.5 B	0.4 U	0.4 UJ	11	10	
Cobalt	0.20 U	—	1.8 B	0.2 U	0.3 U	1.9 B	—	0.7 B	4.0 B	4.4 B	50		
Copper	3.4 B	—	4.1 B	1.8 B	3.6 B	0.6 U	—	4.9 B	5.5 B	6.6 B	25	25	
Iron	44.2 B	—	231	8.5 U	8.1 U	419	—	244	562	2210	7,000	100	
Lead	0.80 U	—	0.80 U	2.6 B	2.9 B	1.2 U	—	1.6 UJ	2.8 B	1.6 U	4.2	3	
Magnesium	33,200	—	29,600	25,900	30,200 J	45,600 J	—	32,500	42,100	51,900		5,000	
Manganese	646	—	271	164	0.3 B	2,780 J	—	251	2,340	3,170 J		15	
Mercury	0.10 U	—	0.10 U	0.10 U	0.10 UJ	0.10 U	—	0.1 U	0.1 U	0.1 U	0.2	0.2	
Nickel	1.9 B	—	1.0 B	0.40 U	0.4 U	0.90 B	—	0.4 U	3.1 B	3.8 B	96	40	
Potassium	2,290 B	—	1,590 J	2,250 B	1,620 B	2,660 B	—	1,720 B	1,830 B	2,690 B		5,000	
Selenium	3.9 U	—	3.9 R	3.9 U	3.1 U	3.1 U	—	3.3 UJ	3.3 UJ	3.3 U	8.5	5	
Silver	0.30 U	—	0.30 U	0.30 U	0.4 U	0.50 B	—	1.4 B	0.5 U	0.5 U	10	10	
Sodium	23,000 J	—	18,600	15,500	13,500 J	2,300 J	—	14,300	18,800	26,500		5,000	
Thallium	5.0 B	—	1.7 U	6.5 B	1.8 U	1.8 U	—	1.5 R	1.5 U	1.5 UJ	40	10	
Vanadium	13.2 B	—	9.3 J	1.0 U	9.8 B	12.8 B	—	1.0 U	7.6 B	1.0 U	50		
Zinc	10.0 B	—	10.9 J	11.3 B	17.1 B	1.1 B	—	4.3 U	4.3 U	4.3 U	86	20	
Inorganics - Metals and Cyanide (Total)													
Aluminum	4,680 J	—	4,210	115 J	77.7 B	1,220	—	263 J	76.5 B	780 J			
Antimony	2.4 UJ	—	2.4 UJ	2.4 U	1.6 U	1.6 U	—	4.8 U	4.8 U	4.8 U			
Arsenic	10.5	—	3.0 B	2.4 UJ	2.5 U	2.5 U	—	3.6 U	3.6 U	3.6 UJ			
Barium	292	—	178 B	104 B	95.0 J	115.0 J	—	57.9 J	56.7 B	74.6 B			
Beryllium	0.10 U	—	0.10 U	0.10 U	0.10 U	0.10 UJ	—	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	—	0.10 U	0.10 U	0.10 U	0.10 UJ	—	0.2 U	0.2 U	0.2 U			
Calcium	232,000	—	229,000	152,000	177,000 J	304,000 J	—	200,000	240,000	289,000			
Chromium	9.4 J	—	9.0 J	0.6 B	2.2 B	0.20 U	—	2.4 B	0.4 U	0.4 UJ			
Cobalt	4.4 B	—	6.2 B	0.2 U	0.3 U	2.9 B	—	0.6 B	3.6 B	5.5 B			
Copper	14.2 J	—	0.70 U	7.0 B	5.7 B	0.60 U	—	7.2 B	6.3 B	8.7 B			
Cyanide	0.60 U	—	0.60 U	0.60 U	0.6 U	2.7 B	—	0.2 U	0.2 U	1.6 U	10.0	10.0	
Iron	13,700	—	8,420	273	151	4740.0 J	—	434	1,090 J	7,910 J			
Lead	8.9 J	—	7.0 J	0.80 U	3.3	3.1	—	1.6 UJ	2.8 B	3.4 J			
Magnesium	44,800	—	38,700	23,800	30,400 J	53,500 J	—	34,000	41,100	51,500			
Manganese	1,280	—	477	84.5	21.5	2,830 J	—	75.3	2280 J	3200			
Mercury	0.10 UJ	—	0.10 U	0.10 U	0.10 U	0.10 U	—	0.1 U	0.1 U	0.1 U			
Nickel	10.4 B	—	8.7 J	0.40 U	0.40 U	4.3 B	—	0.4 U	2.8 B	4.5 B			
Potassium	3,320 J	—	2,550 B	3,040 B	1,890 B	3,190 J	—	1,740 J	1,770 B	2,730 J			
Selenium	3.9 UJ	—	3.9 UJ	3.9 U	3.1 U	3.1 UJ	—	3.3 R	3.3 U	3.3 U			
Silver	0.30 U	—	0.30 U	0.30 U	0.40 UJ	0.40 U	—	1.1 B	0.5 U	0.5 U			
Sodium	23,300	—	18,900	16,300	13,700 J	24,800 J	—	14,600	18,100	25,600			
Thallium	5.1 B	—	1.7 U	2.5 B	2.0 B	1.8 U	—	1.5 UJ	1.5 U	1.5 UJ			
Vanadium	22.4 J	—	17.6 J	1.0 U	11.6 B	13.8 B	—	1.0 U	9.0 B	1.0 U			
Zinc	46.7	—	32.5 J	21.3 J	18.9 B	4.2 B	—	4.3 U	4.3 U	4.3 U			
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL			
Semi-Volatile Organic Compounds (SVOCs)	BRL	—	BRL	BRL	BRL	BRL	—	BRL	BRL	BRL			
Pesticides / PCBs	BRL	—	BRL	BRL	BRL	BRL	—	BRL	BRL	BRL			

1) All results expressed in micrograms per liter (µg/L).

2) Standard Inorganic Data Qualifiers have been used.

3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.

4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.

5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ

6) — = No Sample Available (Well Dry or Insufficient Volume)

7) U = Indicates compound was analyzed for but not detected.

8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.

9) B = (Organics) Indicates the analyte was detected in the Method Blank.

10) UJ = A value less than the CRQL but greater than the MDL.

11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.

12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.

13) CRQL = Contract Required Quantitation Limit

14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.

15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-58

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)											TRIGGER LEVEL	CRQL
	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴													
Aluminum	31.1 B	15.4 U	15.4 U	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	60.7 B			200
Antimony	2.4 U	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60	60	
Arsenic	2.4 U	2.4 UJ	2.4 U	2.4 U	2.5 U	2.5 UJ	5.6 B	3.6 U	3.6 U	3.6 UJ	20	10	
Barium	124 B	106 J	125 B	117 B	129 J	114 B	122 B	113 B	121 B	116 B	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.8 B	0.4 B	5	5	
Calcium	112,000	99,100	109,000	97,800	107,000 J	107,000	105,000 J	101,000	101,000	101,000			5,000
Chromium	1.9 B	2.2 B	2.4 B	0.50 B	1.9 B	0.20 U	0.20 U	2.0 B	0.7 B	0.4 UJ	11	10	
Cobalt	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.5 U	0.5 B	0.5 U		50		
Copper	3.4 B	3.4 B	4.8 B	3.7 B	2.4 B	2.5 B	0.60 U	4.3 B	5.0 B	5.6 B	25	25	
Iron	45.1 B	8.5 U	9.4 B	8.5 U	8.1 U	8.1 U	5.3 U	5.7 B	5.3 U	7,000	100		
Lead	0.80 U	1.5 B	0.8 U	0.80 U	1.2 U	2.6 B	1.2 U	1.6 U	1.6 U	3.0 J	4.2	3	
Magnesium	31,600	30,100	32,700	28,700	33,100 J	31,700 J	31,600 J	29,600	30,000	31,200			5,000
Manganese	5.9 B	13.2 B	9.5 B	0.30 U	4.4 B	5.3 J	34.8	0.5 U	0.5 U	25.1 J		15	
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2	0.2	
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	96	40	
Potassium	3,320 B	4,180 J	4,370 J	3,020 B	3,660 B	3,210 B	3,800 J	3,270 B	3,380 B	3,840 B			5,000
Selenium	3.9 U	3.9 UJ	3.9 R	3.9 U	3.1 U	3.1 UJ	3.1 UJ	3.3 U	3.3 U	3.3 U	8.5	5	
Silver	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	0.5 U	0.5 U	0.5 U	10	10	
Sodium	25,400 J	29,800	29,900	22,100	27,500 J	24,200 J	28,200 J	23,000	26,800	29,500			5,000
Thallium	8.7 B	4.1 UJ	1.7 U	5.6 B	1.8 U	2.1 B	1.8 U	1.5 R	4.5 J	1.5 UJ	40	10	
Vanadium	12.1 B	5.4 B	9.3 J	1.0 U	9.8 B	9.6 B	3.2 B	1.0 U	4.1 B	1.0 U		50	
Zinc	23.4	6.8 B	36.7 J	9.3 B	9.2 B	0.50 U	0.50 UJ	4.3 U	14.6 B	4.3 U	86	20	
Inorganics - Metals and Cyanide (Total)													
Aluminum	27,700 J	3,340 J	37,200	2,230 J	475	1,188 B	1,390 J	284 J	265	1,140 J			
Antimony	8.2 J	2.4 U	11.7 J	60.0 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U				
Arsenic	53.1	2.4 U	22.1	10.0 UJ	2.5 UJ	2.5 U	5.3 B	4.0 J	3.6 U				
Barium	465	145 B	528	148 B	120 J	133 J	135 J	122 J	133 B	122 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 B	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	5.00 U	0.10 U	0.10 UJ	0.2 U	1.0 B	0.7 B				
Calcium	382,000	123,000	474,000	120,000	95,600 J	124,000 J	114,000 J	109,000	110,000	108,000			
Chromium	63.4 J	8.5 B	77.2 J	5.0 B	2.9 B	0.20 U	0.90 B	2.3 B	2.0 B	0.4 UJ			
Cobalt	32.5 B	2.8 B	40.3 B	1.9 B	0.30 U	0.30 U	0.5 U	0.5 B	0.5 U				
Copper	67.6 J	5.4 B	76.7 J	6.9 B	4.6 B	3.6 B	0.60 U	6.2 B	5.6 B	7.1 B			
Cyanide	1.3 B	0.60 U	0.60 U	10.0 U	0.60 U	1.3 B	0.90 B	0.2 U	0.2 U	1.6 U	10	10	
Iron	78,000	7,410	104,000	5,710	1,260	859 J	2,890	769	615 J	1970 J			
Lead	44.3 J	3.0 J	52.7 J	1.1 J	1.2 U	4.2	3.0 UJ	1.6 UJ	1.6 U	3.7 J			
Magnesium	93,400	36,200	112,000	34,000	30,000 J	35,100 J	33,000 J	31,500	32,100	31,800			
Manganese	2,510	232	3,240	147	45.4	30.2 J	92.0	24.2	16.1 J	56.7			
Mercury	0.10 UJ	0.10 U	0.10	0.20 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U			
Nickel	76.5	6.1 B	97.4 J	4.4 B	0.80 B	0.40 U	1.3 B	0.4 U	1.0 B	1.3 B			
Potassium	8,340 J	4,770 J	11,800	3,920 J	3,430 B	3,450 J	3,750 J	3,340 J	3,480 B	3,490 J			
Selenium	3.9 UJ	3.9 UJ	3.9 UJ	5.0 U	31.0 U	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U			
Silver	0.30 U	0.30 U	0.30	10.0 U	0.40 UJ	0.40 U	0.40 U	0.5 B	0.5 U	0.5 U			
Sodium	25,200	26,900	31,700	22,700	25,200 J	27,000 J	23,800 J	23,400	27,900	25,000			
Thallium	4.6 B	1.7 U	1.7 U	5.2 B	1.8 U	1.8 U	1.8 U	1.5 UJ	6.4 J	1.5 UJ			
Vanadium	72.8 J	14.4 B	89.7 J	2.3 B	10.1 B	12.3 B	5.0 B	1.0 U	4.0 B	1.0 U			
Zinc	240	23.9	274.0 J	27.4 J	15.1 B	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U			
Volatile Organic Compounds (VOCs)													
Semi-Volatile Organic Compounds (SVOCs)													
Pesticides / PCBs													

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-59

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)											CRQL
	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Trigger Level	
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	59.3 U	15.4 U	15.4 U	808.0	15.3 U	15.3 U	15.3 U	29.9 B	26.9 U	61.7 B		200
Antimony	2.4 U	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60	60
Arsenic	4.4 B	2.4 U	2.4 U	2.4 U	2.5 U	2.5 U	4.6 J	3.6 U	3.6 U	3.6 UJ	20	10
Barium	36.6 B	39.0 J	38.4 B	40.4 B	43.5 J	45,400 B	38.3 B	46.6 B	35.0 B	42.0 B	1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	5	5
Calcium	179,000	187,000	182,000	153,000	155,000 J	208,000 U	189,000 J	191,000	180,000	204,000		5,000
Chromium	2.3 B	2.7 B	3.0 B	0.50 B	1.8 B	0.20 U	0.20 U	3.3 B	0.4 U	0.4 UJ	11	10
Cobalt	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	0.5 U		50
Copper	3.7 B	3.6 B	5.5 B	4.2 B	2.9 B	3.3 B	0.60 U	5.4 B	5.9 B	6.9 B	25	25
Iron	137	8.5 U	16.6 B	17.9 B	8.1 U	8.1 U	53.0 B	5.3 U	5.3 U	5.3 UJ	7,000	100
Lead	0.80 U	0.80 U	0.80 U	0.80 U	1.7 B	1.6 B	1.2 U	1.6 UJ	4.3 U	4.2 U		3
Magnesium	37,800	40,000	35,800	28,000	25,200 J	43,200 J	43,100 J	37,400	29,800	41,600		5,000
Manganese	14.5 B	34.8	4.6 B	0.30 U	0.20 U	0.20 UJ	0.20 U	0.5 U	0.5 U	0.5 UJ		15
Mercury	0.10 B	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2	
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 UJ	96	40
Potassium	14,500	15,500 J	17,900 J	13,000	11,100	17,800	12,200 J	16,700	19,700	18,900		5,000
Selenium	3.9 U	3.9 UJ	3.9 R	3.9 U	3.1 U	3.1 U	3.1 UJ	3.7 J	3.3 U	3.3 UJ	8.5	5
Silver	0.30 U	0.30 U	0.40 B	0.30 U	0.40 U	0.50 B	0.40 U	0.9 B	0.5 U	0.5 UJ	10	10
Sodium	88,000 J	97,800 J	94,000	60,800	41,800 J	95,500 J	90,500 J	83,100	60,700	105,000		5,000
Thallium	2.6 B	1.7 U	1.7 U	5.0 B	2.1 B	3.7 B	1.8 U	1.5 R	1.5 U	1.5 UJ	40	10
Vanadium	12.9 B	8.6 B	9.6 J	1.0 U	7.4 B	14.0 B	3.2 B	1.0 U	4.9 B	1.0 U		50
Zinc	9.5 B	11.6 B	37.5 J	21.7	12.3 B	0.50 U	0.50 UJ	4.3 U	7.3 B	4.3 U	86	20
Inorganics - Metals and Cyanide (Total)												
Aluminum	7,750 J	1,900 J	17,100	718 J	451	674	578 J	251 J	35.1 B	70.9 J		
Antimony	2.4 UJ	2.4 U	3.0 J	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U		
Arsenic	19.0	2.4 U	18.2	2.4 UJ	2.5 U	2.5 U	6.7 B	5.3 J	3.6 U	3.6 UJ		
Barium	253.0	58.8 J	467	43.9 B	46.8 B	60.3 J	53.9 J	50.0 J	35.7 B	37.4 B		
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U		
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.2 U	0.2 U	0.2 U		
Calcium	226,000	195,000	291,000	111,000	136,000 J	209,000 J	207,000 J	203,000	187,000	185,000		
Chromium	34.7 J	6.9 B	71.0 J	1.9 B	2.7 B	0.20 U	0.20 B	2.7 B	0.4 U	0.4 UJ		
Cobalt	12.9 B	1.1 B	24.7	0.90 B	0.50 B	1.1 B	0.30 U	0.5 U	0.5 U	0.5 U		
Copper	18.6 J	7.4 B	26.3 J	12.2 B	4.8 B	4.8 B	0.60 U	7.3 B	8.2 B	6.8 B		
Cyanide	0.60 U	3.1 B	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.2 U	0.2 U	1.6 U	10	10
Iron	24,000	5,630 J	52,600	2,160	1,440	2,430 J	1,620	671	20,2 J	86.0 J		
Lead	15.4 J	4.8	28.1 J	1.6 J	3.8	3.8 J	3.0 UJ	1.6 UJ	1.6 U	1.6 U		
Magnesium	47,000	41,000	61,900	18,300	21,800 J	425,000 J	45,200 J	36,900	31,300	34,800		
Manganese	1,630	197 J	2,970	61.6	47.7	181 J	94.8	30.5	0.9 J	7.3 B		
Mercury	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U		
Nickel	37.1 B	5.0 B	74.6 J	1.4 B	1.2 B	1.5 B	0.90 B	0.4 U	0.4 U	0.4 U		
Potassium	18,800 J	15,700 J	20,400	8,460 J	10,100	19,600 J	12,900 J	18,200 J	21,200	25,400 J		
Selenium	3.9 UJ	3.9 R	3.9 UJ	3.9 U	3.1 U	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U		
Silver	0.30 U	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U		
Sodium	86,500	96,100 J	95,600	28,600	36,800 J	95,300 J	93,600 J	77,900	61,800	86,500		
Thallium	6.1 B	2.5 B	1.7 U	4.3 B	1.8 U	1.8 J	1.8 U	1.5 UJ	1.5 U	1.5 UJ		
Vanadium	27.6 J	12.1 B	47.0 J	1.0 U	7.2 B	9.3 B	5.5 B	1.0 U	7.3 B	1.0 U		
Zinc	86.7	32.8	135 J	26.2 J	17.0 B	0.50 U	0.50 UJ	4.3 U	5.9 B	4.3 U		
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-60

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Insufficient Volume				Insufficient Volume	Insufficient Volume						
Aluminum	—	15.4 U	15.4 U	15.3 U	—	—	28.6 B	26.9 U	65.6 B		200	
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	4.8 U	4.8 U	4.8 U	60	60	
Arsenic	—	2.4 U	2.4 U	2.5 U	—	—	3.6 U	3.6 U	3.6 UJ	20	10	
Barium	—	57.3 B	64.1 B	87.4 J	—	—	59.9 B	90.5 B	59.3 B	1,000	200	
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	2.3 U	2.3 U	2.3 U	5	5	
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	0.2 U	0.2 U	0.2 U	5	5	
Calcium	—	204,000	160,000	124,000 J	—	—	153,000	259,000	139,000		5,000	
Chromium	—	2.5 B	1.2 B	1.4 B	—	—	2.7 B	0.8 B	0.4 UJ	11	10	
Cobalt	—	0.20 U	0.20 U	0.30 U	—	—	0.5 U	0.5 U	1.7 B		50	
Copper	—	5.60 B	3.80 B	3.6 B	—	—	5.7 B	8.9 B	6.1 B	25	25	
Iron	—	23.7 B	8.5 U	8.1 U	—	—	5.3 U	13.2 B	2,420	7,000	100	
Lead	—	0.80 U	0.80 U	2.9 B	—	—	1.6 UJ	2.2 B	2.4 J	4.2	3	
Magnesium	—	28,100	23,800	16,100 J	—	—	35,500	68,900	33,500		5,000	
Manganese	—	3.7 B	0.30 U	0.20 U	—	—	0.5 U	0.5 U	742 J		15	
Mercury	—	0.10 U	0.10 U	0.10 UJ	—	—	0.1 U	0.1 U	0.1 U	0.2	0.2	
Nickel	—	0.40 U	0.40 U	0.40 U	—	—	0.4 U	0.4 U	1.7 B	96	40	
Potassium	—	7,430 J	6,650	9,980	—	—	6,120	7,220	5,980		5,000	
Selenium	—	3.9 R	3.9 U	3.2 B	—	—	3.3 UJ	3.3 UJ	3.3 U	8.5	5	
Silver	—	0.30 U	0.30 U	0.40 U	—	—	1.2 B	0.5 U	0.5 U	10	10	
Sodium	—	20,100	15,100	7,300 J	—	—	11,900	20,100	9,840		5,000	
Thallium	—	1.7 U	4.3 B	1.8 U	—	—	1.5 R	1.5 U	1.5 UJ	40	10	
Vanadium	—	9.1 J	1.6 B	4.3 B	—	—	1.0 U	10.5 B	1.0 U		50	
Zinc	—	10.4 J	9.1 B	10.1 B	—	—	4.3 U	10.8 B	4.3 U	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	—	2,590	110 J	127 B	—	—	355 J	9,420	18,100 J			
Antimony	—	2.4 UJ	2.4 U	1.6 U	—	—	4.8 U	4.8 U	4.8 U			
Arsenic	—	2.4 U	2.4 UJ	2.5 U	—	—	3.6 U	3.6 U	3.6 UJ			
Barium	—	77.8 B	68.6 B	88.4 J	—	—	66.7 J	123 B	125 B			
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	2.3 U	2.3 U	2.3 U			
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	0.2 U	0.2 B	0.2 B			
Calcium	—	207,000	144,000	122,000 J	—	—	168,000	244,000	146,000			
Chromium	—	6.6 J	1.9 B	1.8 B	—	—	2.9 B	19.8	0.4 UJ			
Cobalt	—	2.4 B	0.20 U	0.30 U	—	—	0.5 U	8.2 B	18.5 B			
Copper	—	0.70 U	9.10 B	5.3 B	—	—	8.1 B	20.1 B	39.0 J			
Cyanide	—	0.60 U	0.60 U	0.60 U	—	—	218	0.2 U	—	10	10	
Iron	—	6,070	285	307	—	—	816	21,800 J	42,000 J			
Lead	—	3.6 J	0.80 UJ	1.5 B	—	—	1.6 UJ	10.9	29.4 J			
Magnesium	—	29,500	21,500	16,400 J	—	—	37400	65800	35100			
Manganese	—	187	6.6 B	15.5	—	—	25	726 J	1,160			
Mercury	—	0.10 U	0.10 U	0.10 UJ	—	—	0.1 U	0.1 U	0.1 U			
Nickel	—	4.2 J	0.40 U	0.40 U	—	—	0.4 U	18.3 B	36.7 B			
Potassium	—	8,170	7,430 J	9,910	—	—	6,760 J	8,030	9,800 J			
Selenium	—	3.9 UJ	3.9 U	3.6 B	—	—	3.3 R	3.3 UJ	3.3 U			
Silver	—	0.30 U	0.30 U	0.40 U	—	—	0.6 B	0.5 U	0.5 U			
Sodium	—	19,700	13,200	7,450 J	—	—	12,700	17,500	6,900			
Thallium	—	1.7 U	2.7 B	1.8 U	—	—	1.5 UJ	1.5 U	1.5 UJ			
Vanadium	—	11.3 J	1.0 U	4.6 B	—	—	1.0 U	29.1 B	26.3 U			
Zinc	—	18.5 J	15.4 J	12.6 B	—	—	4.3 U	63.9	111			
Volatile Organic Compounds (VOCs)	—	BRL	BRL	BRL	—	—	BRL	BRL	BRL			
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	BRL	—	—	—	—	—			
Pesticides / PCBs	—	BRL	BRL	BRL	—	—	—	BRL	—			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-61

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	15.4 U	15.4 U	15.4 U	266	15.3 U	32.4 B	26.9 U	26.9 U	26.9 U			200
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60	60	
Arsenic	2.4 U	2.4 U	3.6 B	2.5 U	2.5 UJ	2.5 U	3.6 U	3.6 U	3.6 UJ	20	10	
Barium	38.2 J	35.0 B	24.4 B	25.6 J	63.3 B	28.7 B	19.1 B	21.2 B	24.1 B	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	5	5	
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.2 B	0.6 B	5	5	
Calcium	241,000	419,000	362,000	252,000 J	222,000	322,000 J	469,000	471,000	296,000		5,000	
Chromium	3.1 B	4.4 B	0.3 B	3.4 B	0.20 U	0.2 U	4.9 B	0.8 B	0.4 UJ	11	10	
Cobalt	0.20 U	2.10 B	0.40 B	1.2 B	0.30 U	1.5 B	1.1 B	1.2 B	0.9 B		50	
Copper	4.6 B	7.1 B	4.2 B	4.6 B	2.4 B	0.60 U	6.9 B	9.9 B	10.4 B	25	25	
Iron	14.5 B	4,390	20.9 B	1,660	31.2 B	713	645	17.9 B	5.3 U	5,000	100	
Lead	0.80 U	0.80 U	2.10 B	3.3	2.0 B	1.2 U	1.6 UJ	2.1 B	5.1 U	4.2	3	
Magnesium	47,900	75,800	77,600	51,400 J	54,800 J	74,400 J	93,200	101,000	65,400		5,000	
Manganese	179	714	118	291	227 J	881	433	328	409 J		15	
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2	0.2	
Nickel	4.2 B	9.5 B	3.4 B	3.6 B	1.2 B	4.3 B	4.6 B	7.3 B	6.0 B	96	40	
Potassium	8,010 J	14,000 J	13,300	8,870	9,240	10,700 J	14,500	16,600	12,500		5,000	
Selenium	3.9 UJ	3.9 R	3.9 U	3.1 U	3.1 UJ	3.1 UJ	3.3 U	3.3 UJ	3.3 U	8.5	5	
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.70 B	2.1 B	0.5 U	0.5 U	10	10	
Sodium	47,800 J	68,100	53,700	49,500 J	78,000 J	98,200 J	66,100	74,300	72,000		5,000	
Thallium	1.7 U	4.6 B	6.6 B	1.8 U	2.7 B	1.8 U	1.5 R	1.5 U	1.5 UJ	40	10	
Vanadium	9.3 B	16.8 J	1.2 B	13.5 B	12.1 B	5.4 B	1.0 U	12.5 B	1.0 U		50	
Zinc	15.7 B	14.7 J	16.8 B	21.5	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	130 J	1,780	23.6 J	15.3 U	15.3 U	225 J	32.2 J	131.0 B	107.0 J			
Antimony	2.4 U	2.4 UJ	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.4 U	2.4 UJ	2.5 U	2.5 U	2.5 U	3.6 U	3.6 U	3.6 UJ			
Barium	38.1 J	45.9 B	23.3 B	24.4 J	34.6 J	37.2 J	17.5 J	20.1 B	25.1 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.3 B			
Calcium	241,000	42,900	380,000	292,000 J	334,000 J	312,000 J	457,000	443,000	340,000			
Chromium	3.4 B	8.5 J	0.3 B	3.9 B	0.20 U	0.20 U	4.7 B	1.1 B	0.4 UJ			
Cobalt	0.6 B	2.5 B	0.3 B	1.5 B	0.30 U	0.30 U	0.8 B	0.9 B	1.0 B			
Copper	4.9 B	0.90 J	5.20 B	4.8 B	3.9 B	1.3 B	7.5 B	13.8 B	11.5 B			
Cyanide	3.1 B	0.60 U	0.60 U	0.60 U	1.0 B	0.60 U	196	0.2 U	1.6 U	10	10	
Iron	420 J	9,040	188	1,390	133 J	934	161	1,080 J	925 J			
Lead	0.80 U	2.10 J	0.80 UJ	2.4 B	1.2 U	3.0 UJ	1.6 UJ	2.7 B	2.7 J			
Magnesium	46,900	80,800	75,700	63,700 J	66,000 J	65,000 J	89,300	92,100	74,100			
Manganese	172 J	523	50.1	486	240 J	106	336	253 J	418			
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U			
Nickel	4.5 B	13.3 J	2.8 B	3.9 B	2.9 B	4.8 B	3.4 B	7.0 B	5.5 B			
Potassium	7,920	15,300	14,300 J	9,530	13,000 J	11,700 J	14,700 J	15,500	13,500 J			
Selenium	3.9 R	3.9 UJ	4.9 B	3.1 U	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U			
Silver	0.30 B	0.30 B	0.30 U	0.40 U	0.70 B	0.50 B	2.1 B	0.5 U	0.5 U			
Sodium	45,000 J	65,800	50,000	61,400 J	51,700 J	65,000 J	57,000	67,900	83,800			
Thallium	2.3 B	3.7 B	4.8 B	1.8 U	2.0 B	1.8 U	1.5 U	1.5 U	1.5 UJ			
Vanadium	10.1 B	17.0 J	1.0 U	18.1 B	13.0 B	5.6 B	1.0 U	14.4 B	1.0 U			
Zinc	33.9	27.3 J	15.6 J	18.6 B	0.50 U	0.50 UJ	4.3 U	7.4 B	4.3 U			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-62A

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	31.0 B	377	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	26.9 U	65.1 B		200	
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60	60	
Arsenic	2.4 UJ	2.4 U	2.4 U	2.5 U	2.5 UJ	2.5 U	3.6 U	3.6 U	3.6 UJ	20	10	
Barium	91.8 J	110 B	101 B	88.9 J	98.9 B	97.8 B	105 B	108 B	110 B	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	5	5	
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.7 B	0.6 B	5	5	
Calcium	115,000	123,000	119,000	114,000 J	127,000	115,000 J	111,000	128,000	126,000		5,000	
Chromium	2.3 B	4.3 B	0.40 B	2.5 B	0.20 U	0.20 U	2.9 B	0.4 U	0.4 UJ	11	10	
Cobalt	0.40 B	0.20 U	0.20 U	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	0.5 U	50		
Copper	2.5 B	6.8 B	4.6 B	4.7 B	3.5 B	0.60 U	6.1 B	7.5 B	7.5 B	25		
Iron	202	625	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	5.3 U	20.8 B	7,000	100	
Lead	0.80 U	0.80 U	0.80 U	2.8 B	1.3 B	1.2 U	1.6 UJ	2.9 B	1.9 J	4.2	3	
Magnesium	40,400	44,000	44,000	40,700 J	46,300 J	41,100 J	41,200	43,800	43,700		5,000	
Manganese	128	140	0.30 U	0.20 U	33.4 J	2.3 B	120	3.3 B	0.5 UJ		15	
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2		
Nickel	1.2 B	2.1 B	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	0.4 U	0.4 U	96	40	
Potassium	7,530	8,110 J	7,220	6,200	7,300	6,740 J	7,180	6,470	6,670		5,000	
Selenium	3.9 UJ	3.9 R	3.9 U	3.1 U	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ	8.5	5	
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U	10	10	
Sodium	101,000	108,000	103,000	96,300 J	106,000 J	101,000 J	104,000	102,000	103,000		5,000	
Thallium	1.7 UJ	1.7 U	5.5 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	1.5 UJ	40	10	
Vanadium	5.7 B	13.5 J	2.5 B	12.4 B	11.5 B	3.3 B	1.0 U	7.9 B	1.0 U		50	
Zinc	16.0 B	10.8 J	7.9 B	14.4 B	0.50 U	0.50 UJ	4.3 U	9.1 B	4.3 U	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	5,460	12,300	5,190 J	228	192 B	1,190 J	483 J	648	2,650 J			
Antimony	2.4 U	2.4 UJ	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 UJ	7.5 B	2.4 UJ	2.5 UJ	2.5 U	4.0 B	3.6 U	3.6 U	3.6 UJ			
Barium	183 B	354	218	95.4 J	107 J	108 J	125 J	119 B	157 B			
Beryllium	0.10 U	0.10 U	0.20 B	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.8 B	1.3 B			
Calcium	161,000	207,000	166,000	117,000 J	134,000 J	119,000 J	127,000	128,000	138,000			
Chromium	16.2	35.1 J	15.3	3.3 B	0.20 U	1.6 B	3.9 B	3.2 B	0.4 UJ			
Cobalt	5.7 B	12.3 B	5.6 B	0.30 U	0.30 U	0.30 U	0.5 U	0.5 U	2.0 B			
Copper	16.6 B	17.2 J	14.2 B	6.1 B	6.0 B	1.1 B	7.8 B	11.9 B	12.8 B			
Cyanide	—	0.60 U	0.60 U	0.60 U	0.90 B	0.60 U	0.2 U	0.2 U	1.6 U	10.0	10.0	
Iron	14,400	30,900	13,600	629	1,020 J	2,940	1,270	1,850 J	6,640 J			
Lead	13.7	22.9 J	5.9 J	2.0 B	3.3 J	3.0 UJ	1.6 UJ	2.7 B	6.2 J			
Magnesium	50,100	59,700	54,400	42,800 J	47,100 J	39,800	46,400	42,200	46,500			
Manganese	614	981	395	14.4 B	51.5 J	74.8	159	48.7 J	201.0			
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U			
Nickel	15.8 B	35.6 J	16.0 B	0.80 B	0.40 U	1.9 B	0.7 B	2.5 B	7.7 B			
Potassium	8,620	10,600	9,290 J	6,610	7,230 J	6,400 J	7,770 J	6,220	7,280 J			
Selenium	3.9 R	3.9 UJ	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U			
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U			
Sodium	105,000	111,000	113,000	102,000 J	105,000 J	96,500 J	11,000	99,400	102,000			
Thallium	1.7 U	1.7 U	3.9 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5 U	1.5 UJ			
Vanadium	19.6 B	35.7 J	8.1 B	12.4 B	9.2 B	4.5 B	1.0 U	8.4 B	1.0 U			
Zinc	55.0	95.9 J	53.1 J	14.7 B	0.50 U	0.50 UJ	4.3 U	11.3 B	13.1 B			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit: reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-62B

Compound	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Quarterly Sampling Results (All Results Expressed in Units of µg/l)		TRIGGER LEVEL	CRQL
										Insufficient Volume	Insufficient Volume		
Inorganics - Metals (Dissolved)¹⁴	Insufficient Volume	Insufficient Volume								Insufficient Volume	Insufficient Volume		
Aluminum	—	—	200.0 U	15.9 B	15.3 U	32.9 B	215	26.9 U	—	—	—	200	
Antimony	—	—	60.0 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	—	—	60	60	
Arsenic	—	—	10.0 U	2.5 U	2.5 UJ	2.5 U	3.6 U	3.6 U	—	—	20	10	
Barium	—	—	21.9 B	41.8 J	130 B	227	32.3 B	49.5 B	—	—	1,000	200	
Beryllium	—	—	5.0 U	0.10 U	0.1 U	0.1 U	2.3 U	2.3 U	—	—	5	5	
Cadmium	—	—	5.0 U	0.10 U	0.1 U	0.1 U	0.2 U	0.2 U	—	—	5	5	
Calcium	—	—	239,000	273,000 J	340,000	310,000 J	248,000	345,000	—	—	—	5,000	
Chromium	—	—	0.50 B	3.3 B	0.2 U	0.2 U	3.7 B	0.7 B	—	—	11	10	
Cobalt	—	—	50.0 U	0.50 B	7.9 B	10.6 B	1.4 B	0.9 B	—	—	—	50	
Copper	—	—	4.3 B	4.6 B	0.6 U	1.8 B	7.1 B	12.3 B	—	—	25	25	
Iron	—	—	11.5 B	8.1 U	169	41.9 B	569	286	—	—	7,000	100	
Lead	—	—	1.2 B	3.1	1.9 B	1.2 U	1.6 UJ	2.7 B	—	—	4.2	3	
Magnesium	—	—	48,600	56,700 J	83,700 J	82,300 J	48,400	69,900	—	—	—	5,000	
Manganese	—	—	15.0 U	223	3,770 J	2,700	127	454	—	—	—	15	
Mercury	—	—	0.20 U	0.10 UJ	0.1 U	0.1 U	0.1 U	0.1 U	—	—	0.2	0.2	
Nickel	—	—	40.0 U	4.6 B	20.4 B	19.5 B	1.3 B	5.4 B	—	—	96	40	
Potassium	—	—	3,220 B	1,000	20,000	20,200 J	5430	8480	—	—	—	5,000	
Selenium	—	—	5.0 U	3.1 U	4.2 J	3.1 UJ	3.3 UJ	3.3 U	—	—	8.5	5	
Silver	—	—	0.30 B	0.40 U	0.8 B	0.5 B	1.1 B	0.5 U	—	—	10	10	
Sodium	—	—	33,900	54,500 J	72,600 J	75,400 J	41,800	69,000	—	—	—	5,000	
Thallium	—	—	3.4 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	—	—	40	10	
Vanadium	—	—	1.7 B	16.0 B	11.4 B	4.7 B	1.0 U	9.9 B	—	—	—	50	
Zinc	—	—	32.3	52.6	23.7	32.7 J	25.6	56.6	—	—	86	20	
Inorganics - Metals and Cyanide (Total)													
Aluminum	—	—	1,610 J	1,320	86.8 B	—	—	—	—	—	—	—	
Antimony	—	—	60.0 U	1.6 U	1.6 U	—	—	—	—	—	—	—	
Arsenic	—	—	10.0 UJ	2.5 UJ	2.5 U	—	—	—	—	—	—	—	
Barium	—	—	31.2 B	43.4 J	140.0 J	—	—	—	—	—	—	—	
Beryllium	—	—	0.10 B	0.10 U	0.10 U	—	—	—	—	—	—	—	
Cadmium	—	—	5.00 U	0.10 U	0.10 UJ	—	—	—	—	—	—	—	
Calcium	—	—	242,000	270,000 J	368,000 J	—	—	—	—	—	—	—	
Chromium	—	—	3.5 B	5.1 B	0.20 U	—	—	—	—	—	—	—	
Cobalt	—	—	1.4 B	1.7 B	8.6 B	—	—	—	—	—	—	—	
Copper	—	—	7.2 B	13.0 B	0.6 U	—	—	—	—	—	—	—	
Cyanide	—	—	10.0 U	0.60 U	—	—	—	—	—	—	—	10.0	10.0
Iron	—	—	6,820	3,970	1,240 J	—	—	—	—	—	—	—	
Lead	—	—	1.8 J	4.6	1.2 UJ	—	—	—	—	—	—	—	
Magnesium	—	—	49,800	59,300 J	90,400 J	—	—	—	—	—	—	—	
Manganese	—	—	155	461	4080 J	—	—	—	—	—	—	—	
Mercury	—	—	0.20 U	0.10 UJ	0.10 U	—	—	—	—	—	—	—	
Nickel	—	—	3.1 B	8.3 B	23.1 B	—	—	—	—	—	—	—	
Potassium	—	—	3,680 J	13,100	21,700 J	—	—	—	—	—	—	—	
Selenium	—	—	5.0 U	3.1 UJ	4.0 J	—	—	—	—	—	—	—	
Silver	—	—	10.0 U	0.40 U	0.40 B	—	—	—	—	—	—	—	
Sodium	—	—	34,000	59,500 J	78,500 J	—	—	—	—	—	—	—	
Thallium	—	—	2.3 B	1.8 U	1.8 UJ	—	—	—	—	—	—	—	
Vanadium	—	—	50.0 U	18.2 B	10.2 B	—	—	—	—	—	—	—	
Zinc	—	—	71.0 J	80.5	44.3	—	—	—	—	—	—	—	
Volatile Organic Compounds (VOCs)	—	BRL	BRL	BRL	BRL	—	BRL	BRL	—	—	—	—	
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	—	—	—	—	—	—	—	—	—	
Pesticides / PCBs	—	BRL	BRL	—	—	—	—	—	—	—	—	—	

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-63

Compound	Quarterly Sampling Result (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	15.4 U	15.4 U	15.4 U	15.3 U	15.3 U	583	38.6 B	26.9 U	32.1 B			200
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60		60
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	2.5 UJ	2.5 U	3.6 U	4.4 B	3.6 UJ	20		10
Barium	44.5 J	32.8 B	21.3 B	32.0 J	46.4 B	43.4 B	27.1 B	29.7 B	33.2 B	1,000		200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	5		5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.6 B	0.2 U	5		5
Calcium	240,000	392,000	271,000	266,000 J	343,000	290,000 J	336,000	238,000	227,000			5,000
Chromium	1.9 B	5.7 B	0.30 U	3.6 B	0.20 U	0.20 U	4.9 B	0.9 B	0.4 UJ	11		10
Cobalt	1.9 B	0.20 U	0.20 U	0.30 U	0.60 B	0.40 B	0.5 U	0.8 B	1.9 B			50
Copper	0.70 U	8.1 B	3.0 B	4.2 B	0.60 U	1.3 B	7.0 B	7.9 B	7.8 B	25		25
Iron	8.5 U	47.8 B	8.5 U	265	8.1 U	1,440	5.3 U	5.3 U	6.2 B	7,000		100
Lead	0.80 UJ	0.80 U	0.80 U	1.2 B	1.2 U	1.2 U	1.6 UJ	2.8 B	2.4 J	4.2		3
Magnesium	51,900	93,500	69,900	65,600 J	81,100 J	70,200 J	80,000	54,800	52,100			5,000
Manganese	887 J	107	12.7 B	1,470	1,520 J	832	12.2 B	507	1,740 J			15
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2		0.2
Nickel	3.2 B	1.8 B	0.40 U	2.0 B	0.50 B	3.1 B	0.4 U	2.4 B	2.1 B	96		40
Potassium	6,680 J	5,620 J	3,550 B	5,390	7,500	6,840 J	5,300	5,820	6,810			5,000
Selenium	3.9 UJ	3.9 R	3.9 U	3.1 U	4.7 J	3.4 J	4.7 J	3.3 U	3.3 U	8.5		5
Silver	0.30 U	0.50 B	0.30 U	0.40 U	0.60 B	0.40 U	1.7 B	0.5 U	0.5 U	10		10
Sodium	49,400 J	59,600	31,700	40,100 J	65,700 J	65,200 J	46,000	38,300	46,500			5,000
Thallium	5.0 B	1.7 U	3.6 B	1.8 U	1.8 U	1.8 U	1.5 R	2.1 J	1.5 UJ	40		10
Vanadium	9.2 B	18.3 J	2.4 B	18.5 B	14.1 B	4.5 B	1.0 U	5.5 B	1.0 U			50
Zinc	5.5 B	10.9 J	10.0 B	14.3 B	0.50 UJ	0.50 U	4.3 U	4.3 U	4.3 U	86		20
Inorganics - Metals and Cyanide (Total)												
Aluminum	1,730 J	6,970	1,370 J	3,550	882	5,080 J	3,190 J	1,970	5,580 J			
Antimony	2.4 U	2.4 UJ	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.4 U	2.4 UJ	2.4 U	2.5 UJ	4.7 B	5.4 B	5.9 J	3.6 U	3.6 UJ		
Barium	53.1 J	64.6 B	29.0 B	49.7 J	52.0 J	70.3 J	42.1 J	36.0 B	68.5 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.20 B	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.9 B	1.2 B			
Calcium	266,000	426,000	272,000	267,000 J	348,000 J	355,000	349,000	230,000	252,000			
Chromium	4.1 B	15.0 J	2.0 B	8.4 B	0.20 U	4.1 B	8.4 B	3.5 B	0.4 UJ			
Cobalt	3.3 B	5.0 B	1.1 B	2.5 B	0.90 B	4.6 B	1.9 B	1.5 B	5.9 B			
Copper	6.3 B	5.0 J	6.4 B	11.1 B	3.1 B	9.2 B	14.0 B	9.8 B	17.1 B			
Cyanide	10.3	0.60 U	0.60 U	0.60 U	1.90 B	0.70 B	0.2 U	0.2 U	1.6 U	10		10
Iron	4,620 J	15,600	2,700	7,590	2,360 J	11,200	6,770	3,100 J	13,800 J			
Lead	2.5 B	10.2 J	0.8 UJ	5.7	1.4 J	5.6 J	3.1 J	3.4	10.6 J			
Magnesium	56,600	103,000	70,700	64,600 J	82,700 J	83,600 J	82,400	53,400	58,900			
Manganese	1,220 J	734	164	1,060	687 J	986	331	497 J	1,460			
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U			
Nickel	8.2 B	14.4 J	1.5 B	8.1 B	2.2 B	11.6 B	4.4 B	4.5 B	12.9 B			
Potassium	7,570 J	7,150	4,080 J	6,250	7,600 J	8,170 J	5,990 J	6,350	8,430 J			
Selenium	3.9 R	3.9 UJ	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 U	3.3 U			
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	2.2 B	0.5 U	0.5 U			
Sodium	54,800 J	63,500	30,100	36,600 J	65,400 J	66,300 J	46,200	35,700	43,900			
Thallium	7.4 J	1.7 U	4.1 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5 UJ	1.5 UJ			
Vanadium	10.2 B	26.5 J	1.0 U	25.6 B	12.0 B	13.8 B	1.0 U	7.9 B	1.0			
Zinc	23.6	55.0 J	19.4 J	38.5	0.50 U	14.7 J	15.5 B	6.9 B	28.4			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

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- 6) — = No Sample Available (Well Dry or Insufficient Volume)
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- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UI = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-64

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	15.4 U	15.4 U	15.4 U	15.3 U	15.3 U	70.3 B	26.2 U	26.9 U	58 B		200	
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60	60	
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	2.5 U	5.8 B	3.6 U	3.6 U	3.6 UJ	20	10	
Barium	40.2 J	42.0 B	43.1 B	48.6 J	48.4 B	43.1 B	41.5 B	47.5 B	44.5 B	1,000	200	
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U	5	5	
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.2 U	0.2 U	0.2 U	5	5	
Calcium	164,000	188,000	166,000	151,000 J	194,000	181,000 J	174,000	182,000	170,000		5,000	
Chromium	3.1 B	3.6 B	0.4 B	3.3 B	0.20 U	0.20 U	3.8 B	0.6 B	0.4 UJ	11	10	
Cobalt	0.20 U	0.80 B	1.00 B	2.0 B	0.40 B	0.30 U	0.5 U	0.6 B	0.5 U		50	
Copper	3.5 B	7.2 B	2.8 B	3.5 B	0.60 B	0.60 U	5.7 B	7.3 B	8.0 B	25	25	
Iron	8.5 U	21.6 B	8.5 U	8.1 U	8.1 U	160	5.3 U	46.8 B	21 B	7,000	100	
Lead	0.80 U	0.80 U	0.80 U	3.2	1.2 U	1.2 U	1.6 UJ	1.6 U	1.7 J	4.2	3	
Magnesium	49,600	58,800	54,000	51,500 J	62,900 J	55,100 J	54,500	56,600	50,500		5,000	
Manganese	269	787	1150	2,080	619.0 J	611	398	983	90.6 J		15	
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U	0.2	0.2	
Nickel	2.4 B	8.4 B	2.9 B	4.6 B	4.0 B	2.8 B	0.7 B	2.7 B	0.9 B	96	40	
Potassium	8,920 J	20,100 J	12,400	17,100	17,100	7,600 J	9,160	12,700	5,980		5,000	
Selenium	3.9 UJ	3.9 R	3.9 U	3.1 U	3.1 U	3.1 UJ	3.7 J	3.3 UJ	3.3 U	8.5	5	
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.50 B	0.40 U	0.8 B	0.5 U	0.5 U	10	10	
Sodium	39,600 J	55,300	39,400	41,300 J	52,900 J	45,900 J	36,800	42,500	32,700		5,000	
Thallium	1.7 U	2.3 B	2.9 B	1.8 U	1.8 U	1.8 U	1.5 R	1.5 U	1.5 UJ	40	10	
Vanadium	10.5 B	13.9 J	3.2 B	14.3 B	13.6 B	3.5 B	1.0 U	8.7 B	1.0 U		50	
Zinc	10.2 B	6.4 J	7.4 B	10.2 B	0.50 U	0.50 UJ	4.3 U	4.3 U	4.3 U	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	1,780 J	15,600	1,730 J	583	333	6670 J	135 J	38.8 B	881.0 J			
Antimony	2.4 U	2.4 UJ	2.4 UJ	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.4 B	2.4 UJ	2.5 UJ	2.5 U	2.5 B	5.4 J	3.6 U	3.6 UJ			
Barium	49.8 J	84.9 B	39.7 B	56.2 J	49.3 J	62.5 B	44.7 J	49.0 B	46.0 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 UJ	0.2 U	0.2 U	0.3 B			
Calcium	186,000	252,000	228,000	167,000 J	206,000 J	198,000 J	195,000	183,000	174,000			
Chromium	5.4 B	25.8 J	2.3 B	4.8 B	0.20 U	8.4 B	3.6 B	0.9 B	0.4 UJ			
Cobalt	3.0 B	19.6 B	2.4 B	3.8 B	1.6 B	7.9 B	1.1 B	0.5 U	1.1 B			
Copper	6.8 B	3.4 J	5.6 B	5.2 B	1.1 B	4.8 B	10.0 B	7.3 B	8.4 B			
Cyanide	7.3 B	2.0 B	0.60 B	3.0 B	2.1 B	1.4 B	0.2 U	0.2 U	1.6 U	10	10	
Iron	4,080 J	37,200	2,690	2,030	1,300 J	14,500	405	1,160 J	2,330 J			
Lead	2.1 B	11.8 J	0.8 UJ	1.8 B	2.9 J	3.3 J	1.6 UJ	2.2 B	4.1 J			
Magnesium	53,600	71,600	64,800	56,700 J	66,000 J	59,300 J	61,600	55,900	49,400			
Manganese	702 J	3,830	1,200	2,690	793 J	1,330	646	867 J	695			
Mercury	0.10 U	0.10 U	0.10 U	0.10 UJ	0.10 U	0.10 U	0.1 U	0.1 U	0.1 U			
Nickel	5.7 B	39.1 J	4.4 B	7.0 B	6.3 B	13.9 B	2.2 B	1.7 B	2.6 B			
Potassium	8,710 J	22,100	10,400 J	20,800	20,400 J	9,480 J	12,500 J	11,900	6,440 J			
Selenium	3.9 R	3.9 UJ	3.9 U	3.1 UJ	3.1 UJ	3.1 U	3.3 R	3.3 UJ	3.3 U			
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.0 B	0.5 U	0.5 U			
Sodium	39,500 J	56,600	38,200	47,400 J	59,000 J	45,300 J	44,200	41,000	32,500			
Thallium	6.1 B	1.7 U	2.7 B	1.8 U	1.8 UJ	1.8 U	1.5 UJ	1.5	1.5 UJ			
Vanadium	12.9 B	38.2 J	1.0 U	18.3 B	9.2 B	12.8 B	1.0 U	7.5	1.0 U			
Zinc	16.2 B	79.6 J	22.3 J	14.0 B	0.50 U	14.7 J	4.3 U	13.9	4.3 U			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.
- 16) Switch to different format for fourth quarter 2007

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-65

Quarterly Sampling Results (All Results Expressed in Units of µg/l)											TRIGGER LEVEL	CRQL
Compound	Jun-07	Sep-07	Dec-07	Mar-08	Jun-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Insufficient Volume	Insufficient Volume	Insufficient Volume			Insufficient Volume			Insufficient Volume			
Aluminum	—	—	—	15.4 U	88.5 B	—	38.2 B	26.9 U	—		200	
Antimony	—	—	—	2.4 U	1.6 U	—	4.8 U	4.8 U	—	60	60	
Arsenic	—	—	—	2.4 UJ	2.5 U	—	3.6 U	3.6 U	—	10	10	
Barium	—	—	—	31.0 B	28.5 J	—	19.3 B	20.3 B	—	1,000	200	
Beryllium	—	—	—	0.10 U	0.10 U	—	2.3 U	2.3 U	—	5	5	
Cadmium	—	—	—	0.10 U	0.10 U	—	0.2 U	0.5 B	—	5	5	
Calcium	—	—	—	169,000	190,000 J	—	187000	204000	—		5,000	
Chromium	—	—	—	0.30 U	6.4 B	—	7.7 B	2.8 B	—	11	10	
Cobalt	—	—	—	0.20 U	0.3 U	—	0.5 U	0.5 U	—		50	
Copper	—	—	—	1.3 B	3.2 B	—	5.1 B	9.3 B	—	25	25	
Iron	—	—	—	124	8.1 U	—	5.3 U	5.9 B	—	5,000	100	
Lead	—	—	—	0.80 UJ	2.3 B	—	1.6 UJ	2.3 B	—	4.2	3	
Magnesium	—	—	—	108,000	138,000 J	—	139000	143000	—		5,000	
Manganese	—	—	—	0.30 U	0.20 U	—	0.5 U	0.5 U	—		15	
Mercury	—	—	—	0.10 U	0.10 UJ	—	0.1 U	0.1 U	—	0.2	0.2	
Nickel	—	—	—	0.40 U	0.40 U	—	0.4 U	0.4 U	—	96	40	
Potassium	—	—	—	3,870 B	3980.0 B	—	4220 B	4400 B	—		5,000	
Selenium	—	—	—	3.9 U	3.1 U	—	5.0 J	3.3 U	—	8.5	5	
Silver	—	—	—	0.30 U	0.40 U	—	1.1 B	0.5 U	—	10	10	
Sodium	—	—	—	30,000	31800.0 J	—	33400	34100	—		5,000	
Thallium	—	—	—	3.8 B	1.8 U	—	1.5 R	3.0 J	—	40	10	
Vanadium	—	—	—	1.0 U	29.1 B	—	1.0 U	16.2 B	—		50	
Zinc	—	—	—	9.4 B	14.4 B	—	4.3 U	4.3 U	—	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	—	—	—	2,610	2,450	—	1,200 J	5,400	13,900 J			
Antimony	—	—	—	60.0 U	1.6 U	—	4.8 U	4.8 U	4.8 U			
Arsenic	—	—	—	10.0 UJ	2.5 UJ	—	3.6 U	3.6 U	3.6 UJ			
Barium	—	—	—	48.3 B	40.6 J	—	25.7 J	43.0 B	79.3 B			
Beryllium	—	—	—	0.10 B	0.10 U	—	2.3 U	2.3 U	2.3 U			
Cadmium	—	—	—	5.00 U	0.10 U	—	0.2 U	1.4 B	2.6 B			
Calcium	—	—	—	181,000	191,000 J	—	196,000	217,000	263,000			
Chromium	—	—	—	6.7 B	12.5	—	9.8 B	13.0	3.5 J			
Cobalt	—	—	—	2.5 B	2.5 B	—	1.7 B	5.0 B	16.2 B			
Copper	—	—	—	6.7 B	9.1 B	—	10.6 B	18.2 B	32.9			
Cyanide	—	—	—	10.0 U	0.60 U	—	0.2 U	0.2 U	—	10	10	
Iron	—	—	—	7,680	7,060	—	3,030	8,410 J	38,400 J			
Lead	—	—	—	4.4 J	7.7	—	1.6 UJ	8.0	22.4 J			
Magnesium	—	—	—	114,000	139,000 J	—	141,000	146,000	159,000			
Manganese	—	—	—	232	192	—	103	360 J	1010			
Mercury	—	—	—	0.20 U	0.10 UJ	—	0.1 U	0.1 U	0.1 U			
Nickel	—	—	—	5.9 B	4.7 B	—	1.9 B	8.9 B	35.9 B			
Potassium	—	—	—	4,630 J	4,740 B	—	4,750 J	6,360	8,500 E			
Selenium	—	—	—	5.0 U	3.1 U	—	3.3 R	3.3 U	3.3 U			
Silver	—	—	—	10.00 U	0.40 U	—	1.3 B	0.5 U	0.5 U			
Sodium	—	—	—	31,600	32,500 J	—	34,900	35,200	36,100			
Thallium	—	—	—	4.1 B	2.5 B	—	1.5 UJ	1.5 UJ	1.5 UJ			
Vanadium	—	—	—	4.5 B	34.3 B	—	1.0 U	25.1 B	1.0 U			
Zinc	—	—	—	31.5 J	30.7 J	—	4.3 U	19.7 U	83.3			
Volatile Organic Compounds (VOCs)	BRL	—	BRL	BRL	BRL	—	BRL	BRL	BRL			
Semi-Volatile Organic Compounds (SVOCs)	BRL	—	BRL	BRL	—	—	—	—	—			
Pesticides / PCBs	—	—	BRL	BRL	—	—	—	—	—			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio

Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-50

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴												
Aluminum	19.7 B	15.4 U	15.4 U	26.0 B	—	15.3 U	34.1 B	26.9 U	26.9 U			200
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	—	1.6 U	4.8 U	4.8 U	4.8 U	60		60
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	—	10.0 B	3.6 U	3.6 U	3.6 UJ	20		10
Barium	67.6 B	36.5 B	37.9 B	44.8 B	—	30.9 B	45.1 B	47.9 B	38.5 B	1,000		200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	—	0.10 U	2.30 U	2.30 U	2.3 U	5		5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	—	0.10 U	0.20 U	0.20 U	0.2 U	5		5
Calcium	103,000	69,800	77,300	80,600	—	70,500 J	96,600	77,100	66,400 J			5,000
Chromium	2.4 B	1.7 B	0.8 B	1.4 B	—	0.20 U	1.90 B	0.90 B	0.7 B	11		10
Cobalt	0.20 U	0.20 U	0.20 U	0.30 U	—	0.30 U	0.50 U	0.60 B	0.5 U			50
Copper	0.7 U	4.2 J	3.3 B	2.3 B	—	0.60 U	5.60 B	6.00 B	3.0 B	25		25
Iron	10.2 B	43.7 B	8.5 U	8.1 U	—	8.1 U	5.3 U	6.9 B	5.3 U	7,000		100
Lead	0.80 U	0.80 U	0.80 U	1.8 B	—	1.2 U	1.6 UJ	1.6 U	1.6 U	4.2		3
Magnesium	29,200	17,400	20,200	21,100	—	18,600 J	25,700	23,500	17,800 J			5,000
Manganese	3.5 B	4.0 B	0.3 U	0.40 B	—	0.20 U	0.70 B	2.50 B	0.5 U			15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	—	0.10 U	0.10 U	0.10 U	0.1 U	0.2		0.2
Nickel	0.40 U	0.40 U	0.40 U	0.50 B	—	0.40 U	0.40 U	0.40 U	0.4 U	96		40
Potassium	4,760 J	2,410 B	1,640 B	2,640 B	—	2,800 J	2,400 B	3,080 B	3,290 J			5,000
Selenium	3.9 UJ	3.9 UJ	3.9 U	3.1 U	—	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	8.5		5
Silver	0.30 B	0.30 U	0.30 U	0.40 U	—	0.40 U	0.60 B	0.50 U	0.50 U	10		10
Sodium	42,500	42,400	56,300	34,500	—	41,100 J	97,300	64,000	43,900 J			5,000
Thallium	3.3 B	3.1 B	3.1 B	3.5 B	—	1.8 U	1.5 UJ	5.5 J	1.5 U	40		10
Vanadium	1.1 B	2.8 B	1.0 U	6.5 B	—	0.90 B	1.00 U	5.00 B	1.0 U			50
Zinc	8.8 B	8.9 B	8.0 B	10.6 B	—	0.50 UJ	4.30 U	4.30 U	4.3 UJ	86		20
Inorganics - Metals and Cyanide (Total)												
Aluminum	36.9 B	302	111 B	299	—	24.8 B	173 B	38.1 B	26.9 U			
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	—	1.6 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	—	8.9 B	3.6 U	3.6 U	8.0 B			
Barium	68.8 B	40.5 B	39.0 B	47.3 B	—	32.1 J	47.2 B	46.5 B	37.9 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	—	0.10 U	2.3 U	2.3 U	2.3 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	—	0.10 U	0.20 U	0.20 U	0.20 U			
Calcium	106,000	74,100	78,300	78,000	—	73,200 J	98,800	77,800	66,100 J			
Chromium	2.5 B	2.1 B	0.70 B	1.9 B	—	0.20 U	2.1 B	1.0 B	0.6 B			
Cobalt	0.20 U	0.20 J	0.20 U	0.30 U	—	0.30 U	0.50 U	0.50 B	0.50 U			
Copper	0.70 U	4.7 B	3.5 B	3.3 B	—	0.60 U	6.7 B	6.5 B	3.1 B			
Cyanide	0.60 U	0.60 U	0.60 U	0.60 U	—	0.60 U	0.70 B	0.20 U	1.60 U	10		10
Iron	71.7 B	508 J	142	525	—	19.5 B	253	27.0 B	27.6 B			
Lead	0.9 J	0.80 U	0.80 U	2.0 B	—	3.0 UJ	1.6 UJ	1.6 U	1.6 U			
Magnesium	29,600	17,700	20,900	20,600	—	19,000 J	26,100	23,000	17,700 J			
Manganese	5.8 B	36.0 J	1.5 B	24.1	—	0.20 U	15.5	3.4 B	0.5 U			
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	—	0.10 U	0.10 U	0.10 U	0.10 U			
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	—	0.40 U	0.40 U	0.40 U	0.40 U			
Potassium	4,870 J	2,430 J	1,680 B	2,640 B	—	2,810 J	2,470 B	3,210 B	3,280 J			
Selenium	3.9 UJ	3.9 U	3.9 U	3.1 U	—	3.1 UJ	4.6 J	3.3 UJ	3.3 UJ			
Silver	0.30 U	0.30 U	0.30 U	0.40 U	—	0.40 U	0.50 U	0.50 U	0.50 U			
Sodium	43,000 J	42,100 J	57,900	33,600	—	41,000 J	97,400	65,600	44,300 J			
Thallium	2.8 B	1.7 U	5.4 B	2.8 B	—	9.8 B	1.5 UJ	5.5 J	1.5 U			
Vanadium	2.6 B	3.1 B	1.0 U	5.2 B	—	0.80 U	1.0 U	5.2 B	1.0 U			
Zinc	2.6 B	6.3 B	8.9 B	12.0 B	—	0.50 UJ	4.3 U	4.3 U	4.3 UJ			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-51

Compound	Quarterly Sampling Results (All Results Expressed in Units of $\mu\text{g/l}$)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁾												
Aluminum	15.4 U	15.4 U	15.4 U	15.3 U	15.3 U	15.3 U	26.9 U	27.6 B	26.9 U			200
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60		60
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	2.5 UJ	2.9 B	3.6 U	3.6 U	4.1 UJ	20		10
Barium	60.1 B	42.5 B	41.0 B	47.9 B	43.2 B	32.8 B	47.8 B	47.1 B	37.2 B	1,000		200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U	5		5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.2 U	5		5
Calcium	97,600	88,800	84,500	80,400	81,100	73,700 J	95,000	76,100	64,900 J			5,000
Chromium	2.0 B	2.4 B	0.60 B	1.4 B	0.20 U	0.20 U	2.30 B	0.90 B	1.2 B	11		10
Cobalt	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.30 U	0.50 U	0.80 B	0.5 U			50
Copper	0.70 U	4.1 J	3.1 B	3.4 B	1.7 B	0.70 B	6.50 B	5.80 B	2.8 B	25		25
Iron	11.3 B	8.9 B	8.5 U	8.1 U	8.1 U	8.1 U	5.3 U	13.6 B	5.3 U	7,000		100
Lead	0.8 U	0.80 U	0.80 U	1.2 B	1.5 B	1.2 U	1.6 UJ	1.6 U	1.6 U	4.2		3
Magnesium	26,600	21,600	22,100	21,900	25,600 J	18,900 J	25,300	22,500	17,400 J			5,000
Manganese	20.7	2.0 B	0.3 U	1.7 B	31.4	4.8 B	2.3 B	3.5 B	4.6 B			15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.2		0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U	96		40
Potassium	4,290 J	2,220 B	1,740 B	2,760 B	3,540 B	2,840 J	2,380 B	3,040 B	3,120 J			5,000
Selenium	3.9 UJ	3.9 UJ	3.9 U	3.1 UJ	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	8.5		5
Silver	0.3 U	0.30 U	0.30 U	0.40 U	1.5 B	0.40 U	0.90 B	0.50 U	0.5	10		10
Sodium	41,300 J	42,100	61,400	37,000	42,800 J	42,800 J	96,700	65,200	43,400 J			5,000
Thallium	2.9 B	1.7 U	6.8 B	1.8 U	3.0 BJ	1.8 U	1.5 UJ	3.5 J	1.5 U	40		10
Vanadium	2.2 B	4.0 B	1.5 B	4.8 B	4.8 B	1.6 B	1.0 U	5.0 B	1.0 U			50
Zinc	5.0 B	1.1 U	8.1 B	12.1 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ	86		20
Inorganics - Metals and Cyanide (Total)												
Aluminum	53.5 B	98.8 B	117.0 B	44.8 B	15.3 U	24.3 B	58.5 B	46.2 B	26.9 U			
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U			
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	3.7 B	5.1 B	3.6 U	3.6 U	5.9 B			
Barium	61.8 B	40.7 B	40.2 B	42.1 B	50.4 J	33.3 J	46.2 B	49.9 B	36.7 B			
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.30 U			
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.20 U			
Calcium	99,800	82,400	81,900	72,700	87,200 J	74,400 J	97,000	83,400	65,100 J			
Chromium	2.3 B	1.9 B	0.6 B	1.3 B	0.20 U	0.20 U	2.10 B	2.80 B	0.40 U			
Cobalt	0.20 U	0.20 U	0.20 U	3.0 U	0.30 U	0.30 U	0.50 U	0.80 B	0.50 U			
Copper	0.70 U	3.8 J	3.2 B	2.4 B	3.0 B	0.60 U	5.80 B	6.10 B	2.90 B			
Cyanide	0.60 U	0.60 U	0.60 U	0.60 U	1.0 B	0.60 U	0.20 U	0.20 U	1.6 U	10		10
Iron	69.0 B	174 J	144	79.7 B	84.3 J	50.6 B	45.1 B	106.0	45.6 B			
Lead	1.1 J	0.80 U	0.80 U	1.7 B	1.7 B	3.0 UJ	1.6 UJ	1.6 U	1.6 U			
Magnesium	26,900	20,700	21,100	19,700	27,100 J	19,000 J	25,700	24,500	17,400 J			
Manganese	23.7	5.3 J	1.9 B	4.6 B	82.4 J	29.3	3.9 B	11.1 B	7.5 B			
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U			
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.50 B	0.40 U			
Potassium	4,430 J	2,130 J	1,710 B	2,470 B	3,680 J	2,860 J	2,430 B	3,250 B	3,140 J			
Selenium	3.9 UJ	3.90 UJ	3.90 U	3.1 UJ	3.1 U	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ			
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	0.50 U	0.50 U	0.50 U			
Sodium	42,100 J	40,400 J	59,000 J	33,300	45,000 J	42,200 J	97,400	69,200	43,400 J			
Thallium	2.9 B	1.7 U	4.4 B	1.8 U	4.1 B	1.9 B	1.5 UJ	2.6 J	1.5 U			
Vanadium	1.2 B	2.5 B	1.0 U	4.1 B	11.8 B	1.6 B	1.0 U	4.6 B	1.0 U			
Zinc	3.2 B	1.5 B	9.1 B	9.8 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.30 UJ			
Volatile Organic Compounds (VOCs)												
Semi-Volatile Organic Compounds (SVOCs)												
Pesticides / PCBs												

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-52

Compound	Quarterly Sampling Results (All Results Expressed in Units of $\mu\text{g}/\text{L}$)										CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09	Trigger Level	
Inorganics - Metals (Dissolved)¹⁴											
Aluminum	18.5 B	15.4 U	15.4 U	26.7 B	15.3 U	15.3 U	26.9 U	26.9 U	26.9 U		200
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U	60	60
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	2.5 UJ	3.4 B	3.6 U	3.6 U	9.2 UJ	20	10
Barium	64.7 B	41.6 B	39.2 B	48.5 B	113 B	32.0 B	47.0 B	48.6 B	37.3 B	1,000	200
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U	5	5
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 B	0.2 U	5	5
Calcium	105,000	87,300	80,100	80,700	125,000	70,400 J	97,900	78,800	64,900 J		5,000
Chromium	2.2 B	2.0 B	0.50 B	1.6 B	0.20 U	0.20 U	2.10 B	0.70 B	1.0 B	11	10
Cobalt	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.30 U	0.50 U	0.60 B	0.5 U		50
Copper	0.70 U	4.0 J	4.6 B	3.6 B	1.6 B	0.60 U	5.60 B	5.30 B	2.8 B	25	25
Iron	27.1 B	10.9 B	8.5 U	8.1 U	17.5 B	8.1 U	5.3 U	11.3 B	14.7 B	7,000	100
Lead	1.0 J	0.80 U	1.50 B	1.7 B	3.6	1.2 U	1.6 UJ	1.6 U	1.6 U	4.2	3
Magnesium	27,100	21,600	21,100	22,300	29,100 J	18,000 J	26,200	23,200	16,900 J		5,000
Manganese	25.9	2.2 B	0.30 U	4.6 B	295	4.4 B	2.6 B	11.4 B	1.3 B		15
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U	0.2	0.2
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.90 B	0.4 U	96	40
Potassium	4,370 J	2,180 B	1,630 B	2,710 B	3,490 B	2,750 J	2,440 B	3,060 B	3,130 J		5,000
Selenium	3.9 UJ	3.9 UJ	3.9 U	3.1 UJ	3.1 UJ	3.1 UJ	3.3 UJ	3.3 UJ	3.3 R	8.5	5
Silver	0.40 B	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	0.50 B	0.50 U	0.5 U	10	10
Sodium	42,200 J	42,500	59,700	37,900	37,700 J	41,200 J	101,000	67,900	43,900 J		5,000
Thallium	3.9 B	2.0 B	3.4 B	1.8 U	6.8 J	1.8 U	1.5 UJ	3.3 J	1.5 U	40	10
Vanadium	2.9 B	3.9 B	1.9 B	4.9 B	10.2 B	2.2 B	1.0 U	4.3 B	1.0 U		50
Zinc	3.6 B	1.6 B	8.8 B	24.7	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ	86	20
Inorganics - Metals and Cyanide (Total)											
Aluminum	106 B	68.3 B	154 B	117 B	15.3 U	18.6 B	59.1 B	47.5 B	335.0		
Antimony	2.4 U	2.4 U	2.4 U	1.6 U	1.6 U	1.6 U	4.8 U	4.8 U	4.8 U		
Arsenic	2.4 U	2.4 U	2.4 U	2.5 U	3.5 B	2.8 B	3.6 U	3.6 U	7.3 B		
Barium	66.5 B	40.9 B	41.0 B	42.4 B	60.5 J	32.3 J	45.6 B	48.8 B	39.0 B		
Beryllium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.30 U	2.30 U	2.3 U		
Cadmium	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.20 U	0.2 U		
Calcium	106,000	82,600	81,700	77,900	97,500 J	71,400 J	95,400	80,000	63,800 J		
Chromium	2.2 B	2.1 B	0.70 B	1.9 B	0.20 B	0.20 U	2.10 B	1.00 B	0.6 B		
Cobalt	0.20 U	0.20 U	0.20 U	0.30 U	0.30 U	0.30 U	0.50 U	0.90 B	0.5 U		
Copper	0.70 U	3.8 J	3.9 B	3.3 B	2.8 B	0.60 U	5.80 B	5.70 B	3.2 B		
Cyanide	0.60 U	0.60 U	0.60 U	0.60 U	1.0 B	0.60 U	1.30 B	0.20 U	1.6 U	10	10
Iron	145	168 J	214.0	139	298 J	60.7 B	43.8 B	86.8 B	643		
Lead	0.80 U	0.80 U	0.80 U	1.8 B	2.7 B	3.0 UJ	1.6 UJ	1.6 U	1.6 U		
Magnesium	27,100	20,500	21,300	20,800	28,200 J	18,100 J	25,700	23,200	16,800 J		
Manganese	37.4	5.7 J	3.7 B	9.8 B	173.0 J	14.1 B	4.2 B	18.8	33.3		
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.1 U		
Nickel	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.4 U		
Potassium	4,460 J	2,070 J	1,730 B	2,610 B	3,930 J	2,750 J	2,400 B	3,110 B	3,050 J		
Selenium	3.9 UJ	3.90 UJ	3.9 U	3.1 UJ	3.1 U	3.1 UJ	3.3 UJ	3.3 UJ	3.3 UJ		
Silver	0.30 U	0.30 U	0.30 U	0.40 U	0.40 U	0.40 U	1.00 B	0.50 U	0.5 U		
Sodium	43,400 J	40,500 J	60,700	36,900	47,500 J	41,100 J	98,800	69,100	42,700 J		
Thallium	4.1 B	3.4 B	4.2 B	1.9 B	4.0 B	2.9 B	1.5 UJ	7.3 J	1.5 U		
Vanadium	2.7 B	3.2 B	1.3 B	6.2 B	12.0 B	1.6 B	1.0 U	4.6 B	1.0 U		
Zinc	3.2 B	1.1 U	9.6 B	17.3 B	0.50 U	0.50 UJ	4.30 U	4.30 U	4.3 UJ		
Volatile Organic Compounds (VOCs)											
Semi-Volatile Organic Compounds (SVOCs)											
Pesticides / PCBs											

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g}/\text{L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
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- 5) BRL = Below Report Limit: reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
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- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-1

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Location Dry				Location Dry	Location Dry	Location Dry		Location Dry			
Aluminum	—	15.4 U	15.4 U	15.3 U	—	—	—	34.6 B	—		200	
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	—	4.8 U	—	60	60	
Arsenic	—	2.4 U	2.4 U	2.5 U	—	—	—	3.6 U	—	20	10	
Barium	—	31.3 B	18.1 B	41.8 J	—	—	—	47.4 J	—	1,000	200	
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	—	2.3 U	—	5	5	
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	—	0.2 U	—	5	5	
Calcium	—	85,000	51,200	59,100 J	—	—	—	95200	—		5,000	
Chromium	—	1.2 B	0.30 U	1.0 B	—	—	—	1.6 B	—	11	10	
Cobalt	—	0.20 U	0.20 U	0.30 U	—	—	—	0.5 U	—		50	
Copper	—	2.0 J	2.1 B	4.7 B	—	—	—	5.0 B	—	25	25	
Iron	—	8.5 U	8.5 U	10.6 B	—	—	—	5.3 U	—	7,000	100	
Lead	—	0.80 U	0.80 U	1.9 B	—	—	—	1.6 UJ	—	4.2	3	
Magnesium	—	13,800	8,700	8,500 J	—	—	—	15700	—		5,000	
Manganese	—	0.3 U	0.30 U	1.3 B	—	—	—	0.5 U	—		15	
Mercury	—	0.10 U	0.10 U	0.10 UJ	—	—	—	0.1 U	—	0.2	0.2	
Nickel	—	0.40 U	0.40 U	0.60 B	—	—	—	0.4 U	—	96	40	
Potassium	—	3,250 B	2,570 B	5,580	—	—	—	4990 B	—		5,000	
Selenium	—	3.9 UJ	3.9 U	3.1 U	—	—	—	3.3 U	—	8.5	5	
Silver	—	0.30 U	0.30 U	0.40 U	—	—	—	0.5 U	—	10	10	
Sodium	—	1,260 B	1,670 B	2,400 J	—	—	—	4270 B	—		5,000	
Thallium	—	1.8 B	3.0 B	2.1 B	—	—	—	1.5 UJ	—	40	10	
Vanadium	—	2.0 B	1.0 U	1.9 B	—	—	—	1.0 U	—		50	
Zinc	—	81.2	42.8	227	—	—	—	135	—	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	—	15.4 U	209	921	—	—	—	180 B	—			
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	—	4.8 U	—			
Arsenic	—	2.4 U	2.4 U	2.5 UJ	—	—	—	3.6 U	—			
Barium	—	33.1 B	18.8 B	47.9 J	—	—	—	49.2 J	—			
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	—	2.3 U	—			
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	—	0.2 U	—			
Calcium	—	91,100	52,000	5,800 J	—	—	—	94200	—			
Chromium	—	1.3 B	0.60 B	2.1 B	—	—	—	1.4 B	—			
Cobalt	—	0.20 U	0.20 U	0.80 B	—	—	—	0.5 U	—			
Copper	—	2.5 J	2.2 B	6.8 B	—	—	—	5.4 B	—			
Cyanide	—	0.60 U	0.60 U	0.60 B	—	—	—	0.2 U	—	10	10	
Iron	—	72.8 J	361.0	1,760	—	—	—	322	—			
Lead	—	0.80 U	0.80 U	3.1	—	—	—	1.6 U	—			
Magnesium	—	14,600	8790.0	8,730	—	—	—	152000	—			
Manganese	—	3.8 J	5.4 B	27.3	—	—	—	6.0 B	—			
Mercury	—	0.10 U	0.10 U	0.10 UJ	—	—	—	0.1 U	—			
Nickel	—	0.40 U	0.40 U	2.2 B	—	—	—	0.4 U	—			
Potassium	—	3,490 J	2,580 B	6,000	—	—	—	5130	—			
Selenium	—	3.9 UJ	3.9 U	3.1 UJ	—	—	—	3.3 U	—			
Silver	—	0.30 U	0.30 U	0.40 U	—	—	—	0.5 U	—			
Sodium	—	1,290 J	1690.0 B	2,370 J	—	—	—	4290 B	—			
Thallium	—	4.0 B	4.6 B	1.8 U	—	—	—	1.5 UJ	—			
Vanadium	—	1.5 B	1.0 U	2.6 B	—	—	—	1.0 U	—			
Zinc	—	85.6	47.6	233	—	—	—	142	—			
Volatile Organic Compounds (VOCs)	—	BRL	BRL	BRL	—	—	—	BRL	—			
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	BRL	—	—	—	BRL	—			
Pesticides / PCBs	—	BRL	BRL	BRL	—	—	—	BRL	—			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-2

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Location Dry				Location Dry							
Aluminum	—	15.4 U	15.4 U	15.3 U	—	—	—	—	—		200	
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	—	—	—	60	60	
Arsenic	—	2.4 U	2.4 U	2.5 U	—	—	—	—	—	20	10	
Barium	—	21.1 B	20.8 B	45.3 B	—	—	—	—	—	1,000	200	
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	—	—	—	5	5	
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	—	—	—	5	5	
Calcium	—	173,000	109,000	117,000	—	—	—	—	—		5,000	
Chromium	—	4.0 B	0.50 B	2.0 B	—	—	—	—	—	11	10	
Cobalt	—	0.20 J	0.20 U	0.30 U	—	—	—	—	—		50	
Copper	—	5.3 B	3.0 B	3.0 B	—	—	—	—	—	25	25	
Iron	—	8.5 U	8.5 U	8.1 U	—	—	—	—	—	7,000	100	
Lead	—	0.8 U	0.8 U	1.2 U	—	—	—	—	—	4.2	3	
Magnesium	—	50,200	31,200	33,600	—	—	—	—	—		5,000	
Manganese	—	1.7 B	0.30 U	0.20 U	—	—	—	—	—		15	
Mercury	—	0.10 U	0.10 U	0.10 U	—	—	—	—	—	0.2	0.2	
Nickel	—	0.40 U	0.40 U	0.40 U	—	—	—	—	—	96	40	
Potassium	—	2,640 B	1,870 B	2,730 B	—	—	—	—	—		5,000	
Selenium	—	3.9 UJ	3.9 U	3.1 U	—	—	—	—	—	8.5	5	
Silver	—	0.30 B	0.30 U	0.40 U	—	—	—	—	—	10	10	
Sodium	—	2,330 B	2,350 B	2,470 B	—	—	—	—	—		5,000	
Thallium	—	3.6 B	5.0 B	1.8 B	—	—	—	—	—	40	10	
Vanadium	—	6.4 B	1.0 U	9.8 B	—	—	—	—	—		50	
Zinc	—	2.3 B	9.9 B	10.0 B	—	—	—	—	—	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	—	15.4 U	15.4 U	15.3 U	—	—	—	—	—			
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	—	—	—			
Arsenic	—	2.4 U	2.4 U	2.5 U	—	—	—	—	—			
Barium	—	20.1 B	19.5 B	44.9 B	—	—	—	—	—			
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	—	—	—			
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	—	—	—			
Calcium	—	166,000	108,000	118,000	—	—	—	—	—			
Chromium	—	3.8 B	0.5 B	1.8 B	—	—	—	—	—			
Cobalt	—	0.20 U	0.20 U	0.30 U	—	—	—	—	—			
Copper	—	5.1 J	2.8 B	2.7 B	—	—	—	—	—			
Cyanide	—	0.60 U	0.60 U	0.70 B	—	—	—	—	—	10	10	
Iron	—	8.50 J	8.50 U	8.1 U	—	—	—	—	—			
Lead	—	0.80 U	0.80 U	1.2 U	—	—	—	—	—			
Magnesium	—	48,600	30,100	32,600	—	—	—	—	—			
Manganese	—	1.1 J	0.30 U	0.20 U	—	—	—	—	—			
Mercury	—	0.10 U	0.10 U	0.10 U	—	—	—	—	—			
Nickel	—	0.40 B	0.40 U	0.40 U	—	—	—	—	—			
Potassium	—	2,520 J	1,810 B	2,650 B	—	—	—	—	—			
Selenium	—	3.90 U	3.90 U	3.1 U	—	—	—	—	—			
Silver	—	0.30 B	0.30 U	0.40 U	—	—	—	—	—			
Sodium	—	2,190 J	1,930 B	2,300 B	—	—	—	—	—			
Thallium	—	2.3 B	4.6 B	1.8 U	—	—	—	—	—			
Vanadium	—	5.3 B	1.0 U	8.8 B	—	—	—	—	—			
Zinc	—	1.3 B	12.4 B	9.0 B	—	—	—	—	—			
Volatile Organic Compounds (VOCs)	—	BRL	BRL	BRL	—	—	—	—	—			
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	BRL	—	—	—	—	—			
Pesticides / PCBs	—	BRL	BRL	BRL	—	—	—	—	—			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-3

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Apr-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Location Dry				Location Dry	Location Dry	Location Dry			Location Dry		
Aluminum	—	15.4 U	15.4 U	28.6 B	—	—	—	27 U	—			200
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	—	4.8 U	—	60	60	
Arsenic	—	2.4 U	2.4 U	2.5 U	—	—	—	3.6 U	—	20	10	
Barium	—	31.1 B	5.6 B	9.5 J	—	—	—	9.5 J	—	1,000	200	
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	—	2.3 U	—	5	5	
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	—	0.2 U	—	5	5	
Calcium	—	93,300	23,200	22,200 J	—	—	—	35800	—			5,000
Chromium	—	1.5 B	0.30 U	0.4 B	—	—	—	0.4 U	—	11	10	
Cobalt	—	0.20 U	0.20 U	0.30 U	—	—	—	0.5 U	—		50	
Copper	—	2.9 J	1.2 B	1.3 B	—	—	—	2.5 B	—	25	25	
Iron	—	8.5 U	8.5 U	60.2 B	—	—	—	15.9 B	—	7,000	100	
Lead	—	0.80 U	0.80 U	1.2 U	—	—	—	1.6 UJ	—	4.2	3	
Magnesium	—	10,900	2,370 B	2,120 J	—	—	—	3970 B	—			5,000
Manganese	—	0.30 U	0.30 U	4.0 B	—	—	—	0.5 U	—			15
Mercury	—	0.10 U	0.10 U	0.10 UJ	—	—	—	0.1 U	—	0.2	0.2	
Nickel	—	0.40 U	0.40 U	0.90 B	—	—	—	0.6 B	—	96	40	
Potassium	—	2,080 B	2,060 B	7,440	—	—	—	3080 B	—			5,000
Selenium	—	3.9 UJ	3.9 U	3.1 U	—	—	—	3.3 U	—	8.5	5	
Silver	—	0.30 U	0.30 U	0.40 U	—	—	—	0.5 U	—	10	10	
Sodium	—	298 B	572 B	440 J	—	—	—	949 B	—			5,000
Thallium	—	1.7 U	4.0 B	3.4 B	—	—	—	1.5 UJ	—	40	10	
Vanadium	—	2.3 B	1.0 U	0.80 U	—	—	—	1.0 U	—			50
Zinc	—	4.4 B	5.5 B	14.7 B	—	—	—	4.3 U	—	86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum	—	15.4 U	133 B	351	—	—	—	162 B	—			
Antimony	—	2.4 U	2.4 U	1.6 U	—	—	—	4.8 U	—			
Arsenic	—	2.4 U	2.4 U	2.5 UJ	—	—	—	3.6 U	—			
Barium	—	26.9 B	6.3 B	11.6 J	—	—	—	10.8 J	—			
Beryllium	—	0.10 U	0.10 U	0.10 U	—	—	—	2.3 U	—			
Cadmium	—	0.10 U	0.10 U	0.10 U	—	—	—	0.2 U	—			
Calcium	—	86,900	23,200	21,900 J	—	—	—	37500	—			
Chromium	—	0.90 B	0.40 B	0.70 B	—	—	—	0.4 B	—			
Cobalt	—	0.20 U	0.40 B	0.30 U	—	—	—	0.5 U	—			
Copper	—	2.0 J	1.1 B	2.3 B	—	—	—	6.6 B	—			
Cyanide	—	0.60 U	0.60 U	0.60 B	—	—	—	0.2 U	—	10	10	
Iron	—	15.5 J	227	661	—	—	—	304	—			
Lead	—	0.80 U	0.90 B	2.2 B	—	—	—	1.6 UJ	—			
Magnesium	—	10,100	2,310 B	2,190 J	—	—	—	4210 B	—			
Manganese	—	0.3 U	1.8 B	29.7	—	—	—	6.7 B	—			
Mercury	—	0.10 U	0.10 U	0.10 U	—	—	—	0.1 U	—			
Nickel	—	0.40 U	0.40 U	1.4 UJ	—	—	—	0.4 U	—			
Potassium	—	1,970 J	2,080 B	7,630	—	—	—	3310 B	—			
Selenium	—	3.9 U	3.9 U	3.1 UJ	—	—	—	3.3 U	—			
Silver	—	0.30 U	0.30 U	0.40 U	—	—	—	0.5 U	—			
Sodium	—	65.0 J	557 B	352 J	—	—	—	739 B	—			
Thallium	—	1.7 U	1.7 U	2.6 B	—	—	—	1.5 UJ	—			
Vanadium	—	1.0 U	1.0 U	0.80 U	—	—	—	1.0 U	—			
Zinc	—	1.5 B	6.8 B	16.9 B	—	—	—	4.3 U	—			
Volatile Organic Compounds (VOCs)	—	BRL	BRL	BRL	—	—	—	BRL	—			
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	BRL	—	—	—	—	—			
Pesticides / PCBs	—	BRL	BRL	BRL	—	—	—	BRL	—			

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-24

Compound	Quarterly Sampling Results (All Results Expressed in Units of µg/l)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled			
Aluminum			15.6 B				35.3 B					200
Antimony			2.4 U				4.8 U			60	60	
Arsenic			3.7 B				5.0 J			20	10	
Barium			86.7 B				101 B			1,000	200	
Beryllium			0.10 U				2.3 U			5	5	
Cadmium			0.10 U				0.2 U			5	5	
Calcium			119,000				122000					5,000
Chromium			0.30 U				2.1 B			11	10	
Cobalt			0.20 U				0.5 U				50	
Copper			1.6 B				4.9 B			25	25	
Iron			514.0				984			7,000	100	
Lead			1.80 B				1.6 UJ			4.2	3	
Magnesium			25,900				30000					5,000
Manganese			96.1				232					15
Mercury			0.10 U				0.1 U			0.2	0.2	
Nickel			0.40 U				0.4 U			96	40	
Potassium			2,520 B				3640 B					5,000
Selenium			3.9 U				3.3 U			8.5	5	
Silver			0.30 U				0.5 U			10	10	
Sodium			15,700 B				101000					5,000
Thallium			6.7 B				1.5 R			40	10	
Vanadium			1.0 U				1.0 U				50	
Zinc			12.5 B				4.3 U			86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum			4,870 J				363 J					
Antimony			2.4 U				4.8 U					
Arsenic			2.4 UJ				4.3 J					
Barium			109 B				105 J					
Beryllium			0.20 B				2.3 U					
Cadmium			0.10 U				0.2 U					
Calcium			171,000				135000					
Chromium			8.2 B				3.2 B					
Cobalt			5.0 B				0.5 U					
Copper			9.9 B				5.6 B					
Cyanide			1.30 B				0.7 B			10	10	
Iron			11,600				1900					
Lead			4.3 J				1.6 UJ					
Magnesium			35,000				33000					
Manganese			420				261					
Mercury			0.10 U				0.1 U					
Nickel			9.4 B				0.4 U					
Potassium			4,020 J				3780 J					
Selenium			3.9 U				3.3 R					
Silver			0.30 U				0.6 B					
Sodium			15,100				93800					
Thallium			1.9 B				1.5 UJ					
Vanadium			6.9 B				1.0 U					
Zinc			44.9 J				4.3 U					
Volatile Organic Compounds (VOCs)			BRL				BRL					
Semi-Volatile Organic Compounds (SVOCs)			BRL				BRL					
Pesticides / PCBs			BRL				BRL					

Notes:

- 1) All results expressed in micrograms per liter (µg/L).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicated compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-26

Compound	Quarterly Sampling Results (All Results Expressed in Units of $\mu\text{g/L}$)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled			
Aluminum			19.0 B				26.9 U				200	
Antimony			2.4 U				4.8 U			60	60	
Arsenic			2.4 U				3.6 U			20	10	
Barium			290.0				780			1,000	200	
Beryllium			0.10 U				2.3 U			5	5	
Cadmium			0.10 U				0.2 U			5	5	
Calcium			79,200				67900				5,000	
Chromium			0.30 U				2.6 B			11	10	
Cobalt			0.40 B				0.5 U				50	
Copper			1.8 B				5.5 B			25	25	
Iron			42.8 B				68.4 B			7,000	100	
Lead			1.10 B				1.6 UJ			4.2	3	
Magnesium			40,900				36100				5,000	
Manganese			64.1				77.7				15	
Mercury			0.10 U				0.1 U			0.2	0.2	
Nickel			0.40 U				0.4 U			96	40	
Potassium			16,300				20,100				5,000	
Selenium			3.9 U				3.3 UJ			8.5	5	
Silver			0.30 U				0.5 U			10	10	
Sodium			142,000				195,000				5,000	
Thallium			5.0 B				1.5 R			40	10	
Vanadium			1.0 U				1 U				50	
Zinc			7.1 B				4.3 U			86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum			192 J				92.4 J					
Antimony			2.4 U				4.8 U					
Arsenic			2.4 UJ				3.6 U					
Barium			287				859 J					
Beryllium			0.10 U				2.3 U					
Cadmium			0.10 U				0.2 U					
Calcium			82,700				73,600					
Chromium			1.1 B				2.8 B					
Cobalt			1.0 B				0.5 U					
Copper			5.6 B				6.0 B					
Cyanide			0.60 U				0.2 U			10	10	
Iron			716				465					
Lead			0.80 UJ				1.6 U					
Magnesium			42,300				39200					
Manganese			80.2				88.5					
Mercury			0.10 U				0.1 U					
Nickel			0.70 B				0.4 U					
Potassium			17,100 J				21,900 J					
Selenium			3.9 U				3.3 R					
Silver			0.30 U				0.5 U					
Sodium			139,000				213,000					
Thallium			3.9 B				1.5 UJ					
Vanadium			1.0 U				1.0 U					
Zinc			15.4 J				4.3 U					
Volatile Organic Compounds (VOCs)			BRL				BRL					
Semi-Volatile Organic Compounds (SVOCs)			BRL				BRL					
Pesticides / PCBs			BRL				BRL					

Notes:

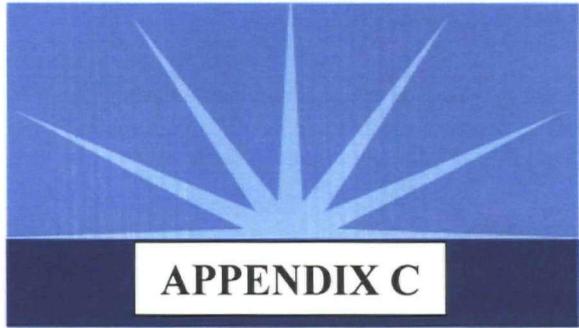
- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

Skinner Landfill
West Chester, Ohio
Groundwater Analysis Summary Table for GW-30

Compound	Quarterly Sampling Results (All Results Expressed in Units of $\mu\text{g/l}$)										TRIGGER LEVEL	CRQL
	Sep-07	Dec-07	Mar-08	Jun-08	Sep-08	Dec-08	Feb-09	Jun-09	Sep-09			
Inorganics - Metals (Dissolved)¹⁴	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled	Not Sampled	Annual	Not Sampled	Not Sampled			
Aluminum			15.4 U				26.9 U				200	
Antimony			2.4 U				4.8 U			60	60	
Arsenic			2.6 B				3.6 U			20	10	
Barium			188.0 B				439			1,000	200	
Beryllium			0.10 U				2.3 U			5	5	
Cadmium			0.10 U				0.2 U			5	5	
Calcium			58,000				68900				5,000	
Chromium			0.30 B				2.5 B			11	10	
Cobalt			0.20 U				0.5 U				50	
Copper			2.2 B				4.9 B			25	25	
Iron			127.0				342			7,000	100	
Lead			0.80 U				1.6 UJ			4.2	3	
Magnesium			28,300				31400				5,000	
Manganese			17.3				30.8				15	
Mercury			0.10 U				0.1 U			0.2	0.2	
Nickel			0.70 B				0.4 U			96	40	
Potassium			12,200				12800				5,000	
Selenium			3.9 U				3.3 UJ			8.5	5	
Silver			0.30 U				0.5 B			10	10	
Sodium			138,000				144000				5,000	
Thallium			4.5 B				1.5 R			40	10	
Vanadium			1.0 U				1.0 U				50	
Zinc			7.7 B				4.3 U			86	20	
Inorganics - Metals and Cyanide (Total)												
Aluminum			15.4 UJ				57.7 J					
Antimony			2.4 U				4.8 U					
Arsenic			2.4 UJ				5.1 J					
Barium			201.0				495.0 J					
Beryllium			0.10 U				2.30 U					
Cadmium			0.10 U				0.20 U					
Calcium			61,100				74,000					
Chromium			0.50 B				2.00 B					
Cobalt			0.20 U				0.50 U					
Copper			4.3 B				5.4 B					
Cyanide			0.60 U				0.20 U			10	10	
Iron			303				622					
Lead			0.80 UJ				1.60 UJ					
Magnesium			29,600				34,200					
Manganese			22.4				36.8					
Mercury			0.10 U				0.10 U					
Nickel			0.40 U				0.40 U					
Potassium			13,400 J				13,700 J					
Selenium			3.9 U				3.3 R					
Silver			0.30 U				0.70 B					
Sodium			145,000				153,000					
Thallium			3.9 B				1.5 UJ					
Vanadium			1.2 B				1.0 U					
Zinc			10.3 J				4.3 U					
Volatile Organic Compounds (VOCs)			BRL				BRL					
Semi-Volatile Organic Compounds (SVOCs)			BRL				BRL					
Pesticides / PCBs			BRL				BRL					

Notes:

- 1) All results expressed in micrograms per liter ($\mu\text{g/L}$).
- 2) Standard Inorganic Data Qualifiers have been used.
- 3) Results in BOLD indicate a detection above the Contract Required Quantitation Limit (CRQL). An analyte is only bolded if there is a corresponding Trigger Level.
- 4) Results shaded yellow, BOLD, and red with a thick outline indicates a detection above the Trigger Level.
- 5) BRL = Below Report Limit; reported data values have a data qualifier of U, J, or UJ
- 6) — = No Sample Available (Well Dry or Insufficient Volume)
- 7) U = Indicates compound was analyzed for but not detected.
- 8) B = (Inorganics) Indicates the result is between the Reporting Detection Limit (RDL) and Method Detection Limit (MDL) but below CRQL.
- 9) B = (Organics) Indicates the analyte was detected in the Method Blank.
- 10) UJ = A value less than the CRQL but greater than the MDL.
- 11) J = The analyte was positively identified; the associated numerical value is the estimated concentration of analyte in the sample.
- 12) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
- 13) CRQL = Contract Required Quantitation Limit
- 14) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
- 15) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.



LABORATORY DATA VALIDATION REPORT

AECOM

**DATA VALIDATION REPORT
FOR
SKINNER LANDFILL SITE
AECOM: PROJECT NUMBER 60134280
LABORATORY REPORT NUMBER 209092331
PROJECT MANAGER: Ron Roelker
Date: December 21, 2009
Data Validator: Janelle Murphy/Mark Kromis**

LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
GCAL	Gulf Coast Analytical Laboratories
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
PEM	Performance Evaluation Mix
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 209092331 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Inorganic Data Review, (US EPA, September, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 209092331.

GCAL #	Sample Description
20909233101	SK-SW50-1031
20909233102	SK-MS-1031 (SW50)
20909233104	SK-DUP-1031 (SW50)
20909233105	SK-SW51-1031
20909233106	SK-SW52-1031
20909233107	SK-FD-1031 (SW51)
20909233110	SK-SW50-1031 (DISS)
20909233111	SK-MS-1031 (SW50) DISS
20909233112	SK-DUP-1031 (SW50) DISS
20909233113	SK-SW51-1031 (DISS)
20909233114	SK-SW52-1031 (DISS)
20909233115	SK-FD-1031 (SW51) DISS

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user.

Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U** The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

-
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
 - R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

- 1. Holding Times
- 2. Calibration
 - A. Initial Calibration (IC)
 - B. Continuing Calibration (CC)
- 3. Blanks
- 4. Inductively Coupled Plasma (ICP) Interference Check Sample
- 5. Laboratory Control Sample (LCS)
- 6. Duplicate Analysis
- 7. Spike Sample Analysis
- 8. ICP Serial Dilution
- 9. System Performance
- 10. Documentation
- 11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

The percent recoveries for Arsenic in the Contract Required Detection Limit (CRDL) standards analyzed on 10/2/09 were 62%, 84%, and 95%.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards analyzed on 10/2/09 were 84%, 63%, and 96%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards analyzed on 10/2/09 were 90%, 79%, and 75%.

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards analyzed on 10/2/09 were 108%, 118%, and 135%.

As per the National Functional Guidelines, if the CRDL percent recovery is less than 80% then detected results are qualified "J" and non-detected results are qualified with "UJ". If the CRDL percent recovery is greater than 120% then detected results are qualified "J".

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SK-SW50-1031 (total and dissolved fractions) for the duplicate samples. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target analytes.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SK-SW50-1031 (total and dissolved fractions) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75-125%) for all analytes with the exception of Selenium (70%, 0%) associated with the total and dissolved fractions and Arsenic (143%) associated with the dissolved fraction. As per the National Functional Guidelines, if the spike recovery is greater than 30% but less than 74% then qualify detected results for that analyte with "J" and non-detected results are qualified with "UJ". If the spike recovery is less than 30% then qualify detected results for that analyte with "J" and non-detected results are qualified "R". If the spike recovery is greater than 125% then qualify detected results for that analyte with "J" and results less than the IDL are acceptable.

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. GCAL selected sample SK-SW50-1031 (total/dissolved) for serial dilution. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Calcium (12%, 13%), Magnesium (11%, 12%), Potassium (41%, 35%), and Sodium (23%, 23%) associated with both the total and dissolved fractions. As per the National Functional Guidelines, if the serial dilution %D exceeds the acceptance criteria then detected results are qualified "J" and non-detected results are qualified with "UJ".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

11. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 209092331 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 209092331.

GCAL #	Sample Description
20909233101	SK-SW50-1031
20909233102	SK-MS-1031 (SW50)
20909233103	SK-MSD-1031 (SW50)
20909233105	SK-SW51-1031
20909233106	SK-SW52-1031
20909233107	SK-FD-1031 (SW51)
20909233116	SK-SW51-1031 (RE)
20909233117	SK-SW52-1031 (RE)

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

-
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

 - R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

- 1. Holding Times
- 2. GC/MS Tuning
- 3. Calibration
 - A. IC
 - B. CC
- 4. Blanks
- 5. System Monitoring Compound Recovery
- 6. MS/MSD
- 7. Internal Standards Performance
- 8. Compound Identification
- 9. Constituent Quantitation and Reported Detection Limits
- 10. System Performance
- 11. Documentation
- 12. Overall Assessment

1. HOLDING TIMES

The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C. All samples were initially extracted within the seven-day technical holding time and the five-day Validated Time of Sample Receipt (VTSR) method holding time.

Samples SK-SW51-1031 and SK-SW52-1031 were re-extracted due to very low recovery of the surrogate 2-Chlorophenol-d4. The samples were re-extracted two past the technical hold time therefore detected results for the re-extracted samples were qualified with "J" and non-detected results were qualified with "UJ".

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV4. Three decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/30/09 was analyzed on instrument MSSV4 in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent Relative Standard Deviation (%RSD) values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds.

The RRFs and the average RRF for the ICs were within the acceptance criteria specified in the method for all target compounds. The %RSDs were within the acceptance criteria (<30%) specified in the method for all target compounds with the exception of Indeno(1,2,3-cd)pyrene (34%). The data validator dropped the lowest point of the calibration curve for Indeno(1,2,3-cd)pyrene and re-calculated the %RSD. The re-calculated %RSD for Indeno(1,2,3-cd)pyrene was 25%, which is within the acceptance criteria of less than or equal to 30%.

B. Continuing Calibration

Three CCs dated 9/30/09, 10/1/09, and 10/5/09 were analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRFs for the CC was within the acceptance criteria specified in the method for all target compounds. The percent difference (%D) between the average RRFs and the CC Response Factors were within the acceptance criteria (<25%) with the exception of Indeno(1,2,3-cd)pyrene (28%) on 9/30/09, Diethylphthalate (104%) on 10/1/09 and Di-n-octylphthalate (37%) on 10/5/09. As per the National Functional Guidelines, if the %D is outside the < 25% criterion then qualify detected results for that compound with "J" and non-detected results for that compound with "UJ".

4. BLANKS

Two laboratory semivolatile method blanks were analyzed with this SDG. The results are summarized below.

Method Blank (MB761815)

Bis(2-ethylhexyl)phthalate (2 ppb) was detected in the method blank extracted on 9/24/09.

Method Blank (MB763930)

Bis(2-ethylhexyl)phthalate (3 ppb) was detected in the method blank extracted on 10/1/09.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of 2-Chlorophenol-d4 associated with SK-SW51-1031(0.05%) and SK-SW52-1031 (0%). As per the National Functional Guidelines if any surrogate in either semivolatile fraction has a recovery of less than 10% then specify the fraction and qualify detected semivolatile target compounds for the fraction with "J" and non-detected Semivolatile target compounds for the fraction are qualified as unusable "R".

The samples were reanalyzed and 2-Chlorophenol-d4 was within the acceptable control limits.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SK-SW50-1031 was submitted for MS/MSD analysis. The MS/MSD percent recoveries are within the acceptance criteria. All of the RPDs between the MS and MSD were within the acceptance criteria.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard (IS) areas and Retention Times (RT) were within the acceptance limits for the reported semivolatile samples with the exception of the IS area count for Perylene-d12 (low) associated with sample SK-FD-1031 (SW51). GCAL stated in the case narrative that sample SK-FD-1031 (SW51) was diluted in order to bring the IS Perylene-d12 within QC limits. There was no indication on why the sample had to be diluted. The data validator reviewed the chromatogram and there appears to be no matrix interference (nor TICS) in the 6.6 minute time frame in which the IS elutes. The data validator requested GCAL to resubmit the Form I for sample SK-FD-1031 (SW51) (undiluted) with all target semivolatile compounds reported.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The "Start Cal Date" on pages 256-262 and 298-300 was incorrectly reported as 12 JUN 2009 13:06. The data validator manually corrected the date to read 30 SEP 2009 07:37.

There were no sample volumes, units, date extracted, or preparation method listed on Form I SV-TIC. The analytical method reported by the GCAL on the Form I SV-TIC was listed as SW-846 8270C when it should have been listed as OLM04.2. The data validator manually made the corrections.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 209092331 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 209092331.

GCAL #	Sample Description
20909233101	SK-SW50-1031
20909233102	SK-MS-1031 (SW50)
20909233103	SK-MSD-1031 (SW50)
20909233105	SK-SW51-1031
20909233106	SK- SW52-1031
20909233107	SK-FD-1031 (SW51)
20909233108	SK-TB-1031
20909233109	VHBLK

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

-
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
 - R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

- 1. Holding Times
- 2. GC/MS Tuning
- 3. Calibration
 - A. IC
 - B. CC
- 4. Blanks
- 5. System Monitoring Compound Recovery
- 6. MS/MSD
- 7. Laboratory Control Sample
- 8. Internal Standards Performance
- 9. Compound Identification
- 10. Constituent Quantitation and Reported Detection Limits
- 11. System Performance
- 12. Documentation
- 13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on one GC/MS system identified as MSV5. Two bromofluorobenzene (BFB) tunes were run on MSV5 on 9/28/09 and 9/29/09. The BFB tune criteria are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/28/09 was analyzed on instrument MSV5 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRFs as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of “greater than or equal to 0.05” is applied to all volatile compounds.

The RRFs and the average RRF for the ICs were within the acceptance criteria specified in the method for all target compounds with the exception of Acetone. The %RSDs were within the acceptance criteria specified in the method for all target compounds. As per the National Functional Guidelines, if any IC RRF is less than 0.05 then qualify detected results for that compound with “J” and non-detected results for that compound with “R”.

B. Continuing Calibration

Two CCs dated 9/28/09 and 9/29/09 were analyzed on instrument MSV5 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRFs and the CC RFs were within the acceptance criteria for all target compounds with the exception of 2-Hexanone (32%). As per the National Functional Guidelines, if any %D is outside of the +/- 25% range then qualify detected results for that compound with “J” and non-detected results for that compound with “UJ”.

The RRFs for the CCs were within the acceptance criteria specified in the method for all target compounds with the exception of Acetone associated with the CC dated 9/28/09 and Acetone and 2-Butanone associated with the CC dated 9/29/09. Acetone was previously qualified under the section titled “Initial Calibration” therefore further data qualification was not warranted. As per the National Functional Guidelines, if any CC RRF is less than 0.05 then qualify detected results for that compound with “J” and non-detected results for that compound with “R”.

4. BLANKS

Two laboratory volatile method blanks, a storage blank, and a trip blank were analyzed with this SDG. The results are summarized below.

MB762790

Chloroform (0.49 ppb) was detected in method blank MB762790 analyzed on 9/28/09 (1520).

MB762964

Chloroform (0.61 ppb) was detected in method blank MB762964 analyzed on 9/29/09 (0846).

Storage Blank (VHBLK)

Chloroform (0.85 ppb) was detected in method blank Storage Blank analyzed on 9/29/09 (1410).

Trip Blank (SK-TB-1031)

There were no target compounds detected in the Trip Blank received on 9/23/09.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds (SMC) were recovered within acceptable control limits (80%-120%).

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SK-SW50-1031 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. All of the percent RPDs between the MS and MSD were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

Two Laboratory Control Samples were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 209092331 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 209092331.

GCAL #	Sample Description
20909233101	SK-SW50-1031
20909233102	SK-MS-1031 (SW50)
20909233103	SK-MSD-1031 (SW50)
20909233105	SK-SW51-1031
20909233106	SK-SW52-1031
20909233107	SK-FD-1031 (SW51)

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U** The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J** The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C. All samples were initially extracted within the seven-day technical holding time and the five-day Validated Time of Sample Receipt (VTSR) method holding time.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits. The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM).

The percent breakdown for both 4,4'-DDT and endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4'-DDT and endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion for Individual standard mixtures A and B were within the acceptance criteria.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of 4,4'-DDE (29.8%). As per the National Functional Guidelines, up to two single component target pesticides (other than the surrogates) per column may exceed the 20% limit but the %RSD must be less than or equal to 30%, therefore no action is taken. The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows. The percent difference for each of the pesticides and surrogates in the PEMs were within the acceptance criteria of ± 25.0 percent for the calibration verifications with the exception of 4,4'-DDT (25.3%) and endrin ketone (27.3%). As per the National Functional Guidelines, if the %D is outside the $> 25\%$ criterion then qualify detected results for that compound with "J" and non-detected results for that compound with "UJ".

5. BLANKS

One laboratory method blank was analyzed with this SDG. The results are summarized below.

Method Blank MB761814

No constituents were reported by GCAL for the method blank extracted on 9/24/09.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30% - 150%) for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SK-SW50-1031 was submitted for MS/MSD analysis. All of the percent recoveries associated with the MS/MSD were within the acceptance criteria with the exception of dieldrin (44%, 49%), endrin (47%, 53%) and gamma-BHC (30%, 44%) in the MS/MSD.

All of the percent RPDs between the MS and MSD were within the acceptance criteria with the exception of gamma-BHC (38%). As per the National Functional Guidelines, no action is taken on MS/MSD results alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported.

11. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*



NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/14/2010

GCAL Report 209092331



Deliver To AECOM/Earth Tech
One Midtown Plaza
1360 Peachtree St Suite 500
Atlanta, GA 30309
770-990-1400

Attn Mark Kromis

Project Skinner Landfill 3Q 2009

CASE NARRATIVE

Client: Earth Tech **Report:** 209092331

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

Pages 213-214 of this report were resubmitted and page 214A was added to this report on 01/14/10. The OLM 4.2 semi-volatiles data form 1 for the 1 dilution performed on this sample was revised to include results for all target compounds.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLC02.1 CLP4.2 analysis of samples 20909233105 (SK-SW51-1031) and 20909233106 (SK-SW52-1031), the surrogate 2-Chlorophenol-d4 was not recovered in the original extract. Samples 20909233116 (SK-SW51-1031 (RE)) and 20909233117 (SK-SW52-1031 (RE)) were re-extracted outside of holding time and all surrogate recoveries were within acceptable limits. Both sets of data is reported.

In the OLC02.1 CLP4.2 analysis, sample 20909233107 (SK-FD-1031-SW51) is reported at a 1 and 5 dilution. The 5 dilution is for compounds affected by a failed internal standard area in the 1 dilution. The 5 dilution is reflected in elevated detection limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM04.2 - CLP Pesticide analysis of prep batch 420022, DDT and Endrin Ketone failed in the CCV files 2091014p/sv18b029 and sv18b030 on the confirmation column, however these compounds were not present in the associated samples so a confirmation was not needed. All compounds passed for the CCVs on the primary column.

In the OLM04.2 - CLP Pest/PCB analysis for prep batch 418878, the MS/MSD exhibited recovery failures. These recoveries were within limits in the LCS and/or LCSD.

METALS

Dissolved Calcium, Potassium, Barium, Chromium and Magnesium were greater than total Calcium, Potassium, Barium, Chromium and Magnesium in sample 20909233110 (SK-SW50-1031). This is attributed to separate aliquots of sample.

Dissolved Barium, Chromium and Sodium were greater than total Barium, Chromium and Sodium in sample 20909233113 (SK-SW51-1031). This is attributed to separate aliquots of sample.

Dissolved Calcium, Arsenic, Chromium, Potassium, Magnesium, and Sodium were greater than total Calcium, Arsenic, Chromium, Potassium, Magnesium, and Sodium in sample 20909233114 (SK-SW52-1031). This is attributed to separate aliquots of sample.

Dissolved Barium, Calcium, Copper, Magnesium, Manganese, Potassium and Sodium were greater than total Barium, Calcium, Copper, Magnesium, Manganese, Potassium and Sodium in sample 20909233112 (SK-DUP-1031 (SW50) DISS)). This is attributed to separate aliquots of sample.

Dissolved Barium, Chromium, Copper, Magnesium, Potassium and Sodium were greater than total Barium, Chromium, Copper, Magnesium, Potassium and Sodium in sample 20909233115 (SK-FD-1031 (SW51) DISS)). This is attributed to separate aliquots of sample.

In the ILM04.1 - CLP Metals analysis for prep batch 418802, the MS and/or MSD recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 34%. Calcium, Magnesium, Potassium and Sodium are flagged as estimated on the serial dilution form due to the fact that the percent difference between original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

In the ILM04.1 - CLP Metals analysis for prep batch 418803, Calcium, Magnesium, Potassium and Sodium are flagged as estimated on the serial dilution form due to the fact that the percent difference between original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected. The MS and/or MSD recoveries were outside the control limits for Arsenic and Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 149% Arsenic and 0% for Selenium.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

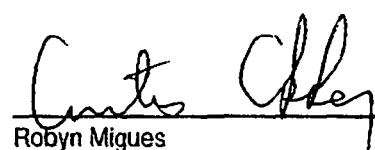
Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



Robyn Miguez
Technical Director
GCAL REPORT 209092331

THIS REPORT CONTAINS 6091 PAGES.

Report Sample Summary

CAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
_0909233101	SK-SW50-1031	Water	09/22/2009 12:40	09/23/2009 09:00
20909233102	SK-MS-1031 (SW50)	Water	09/22/2009 12:40	09/23/2009 09:00
20909233103	SK-MSD-1031 (SW50)	Water	09/22/2009 12:40	09/23/2009 09:00
20909233104	SK-DUP-1031 (SW50)	Water	09/22/2009 12:40	09/23/2009 09:00
20909233105	SK-SW51-1031	Water	09/22/2009 10:45	09/23/2009 09:00
20909233106	SK-SW52-1031	Water	09/22/2009 10:10	09/23/2009 09:00
20909233107	SK-FD-1031 (SW51)	Water	09/22/2009 10:45	09/23/2009 09:00
20909233108	SK-TB-1031	Water	09/22/2009 00:00	09/23/2009 09:00
20909233109	VHBLK	Water		09/23/2009 09:00
20909233110	SK-SW50-1031 (DISS)	Water	09/22/2009 12:40	09/23/2009 09:00
20909233111	SK-MS-1031 (SW50) DISS	Water	09/22/2009 12:40	09/23/2009 09:00
20909233112	SK-DUP-1031 (SW50) DISS	Water	09/22/2009 12:40	09/23/2009 09:00
20909233113	SK-SW51-1031 (DISS)	Water	09/22/2009 10:45	09/23/2009 09:00
20909233114	SK-SW52-1031 (DISS)	Water	09/22/2009 10:10	09/23/2009 09:00
20909233115	SK-FD-1031 (SW51) DISS	Water	09/22/2009 10:45	09/23/2009 09:00
20909233116	SK-SW51-1031 (RE)	Water	09/22/2009 10:45	09/23/2009 09:00
20909233117	SK-SW52-1031 (RE)	Water	09/22/2009 10:10	09/23/2009 09:00

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-SW50-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233101

Level: (low/med)

Lab File ID: 2090928/j2454

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1240

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1556

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

11/10/04
MSA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-SW50-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233101

Level: (low/med)

Lab File ID: 2090928/2454

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1240

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1556

Soil Extract Volume: (μL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (μL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
---------	----------	--------	---	-----	----

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-SW50-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.:
Matrix:	Water		20909233101 2090928/2454T
Sample wt/vol:		Units:	
Level: (low/med)			Date Collected: 09/22/09 Time: 1240
% Moisture: not dec.			Date Received: 09/23/09
GC Column:	ID: _____	(mm) _____	Date Analyzed: 09/28/09 Time: 1556
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:		(μ L)	
Soil Aliquot Volume:		(μ L)	

Number TICs Found: 2

CONCENTRATION UNITS: μ g/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 115-11-7	1-Propene, 2-methyl-	2.105	.22	
2. 80-62-6	Unknown	7.953	.109	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-MS-1031 (SW50)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233102

Level: (low/med)

Lab File ID: 2090928/J2455

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1240

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1638

Soil Extract Volume: (μL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (μL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
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79-00-5	1,1,2-Trichloroethane	4.9		0.010	1.0
106-93-4	1,2-Dibromoethane	4.3		0.010	1.0
107-06-2	1,2-Dichloroethane	4.7		0.010	1.0
78-87-5	1,2-Dichloropropane	4.6		0.010	1.0
106-46-7	1,4-Dichlorobenzene	5.1		0.010	1.0
71-43-2	Benzene	5.0		0.010	1.0
75-25-2	Bromoform	4.7		0.010	1.0
58-23-5	Carbon tetrachloride	5.1		0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	4.5		0.010	1.0
127-18-4	Tetrachloroethene	5.2		0.010	1.0
79-01-6	Trichloroethene	4.9		0.010	1.0
75-01-4	Vinyl chloride	4.6		0.010	1.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-MSD-1031 (SW50)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233103

Level: (low/med)

Lab File ID: 2090928/2456

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1240

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1701

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
79-00-5	1,1,2-Trichloroethane	4.9		0.010	1.0
106-93-4	1,2-Dibromoethane	4.8		0.010	1.0
107-06-2	1,2-Dichloroethane	5.0		0.010	1.0
78-87-5	1,2-Dichloropropane	4.8		0.010	1.0
106-46-7	1,4-Dichlorobenzene	5.1		0.010	1.0
71-43-2	Benzene	4.9		0.010	1.0
75-25-2	Bromoform	4.6		0.010	1.0
56-23-5	Carbon tetrachloride	4.9		0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	4.6		0.010	1.0
127-18-4	Tetrachloroethene	4.8		0.010	1.0
79-01-6	Trichloroethene	4.6		0.010	1.0
75-01-4	Vinyl chloride	4.7		0.010	1.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-SW51-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233105

Level: (low/med)

Lab File ID: 2090928/j2458

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1045

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1748

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT

Q

MDL

RL

71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-SW51-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233105

Level: (low/med)

Lab File ID: 2090928/2458

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1045

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1748

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-SW51-1031

Lab Name: GCAL	Contract:	
Lab Code: LA024	Case No.:	SAS No.: SDG No.: 209092331
Matrix: Water		Lab Sample ID: 20909233105
Sample wt/vol:	Units:	Lab File ID: 2090928/2458T
Level: (low/med)		Date Collected: 09/22/09 Time: 1045
% Moisture: not dec.		Date Received: 09/23/09
GC Column:	ID: (mm)	Date Analyzed: 09/28/09 Time: 1748
Instrument ID: MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:	(μL)	
Soil Aliquot Volume:	(μL)	

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 115-11-7	1-Propene, 2-methyl-	2.105	.235	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-SW52-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233106

Level: (low/med)

Lab File ID: 2090928/2459

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1010

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1811

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT

Q

MDL

RL

71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-SW52-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233106

Level: (low/med)

Lab File ID: 2090928/j2459

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1010

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1811

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT Q MDL RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-SW52-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092331
Matrix:	Water	Lab Sample ID: 20909233106	
Sample wt/vol:		Lab File ID: 2090928/2459T	
Level: (low/med)		Date Collected:	09/22/09 Time: 1010
% Moisture: not dec.		Date Received:	09/23/09
GC Column:	ID: (mm)	Date Analyzed:	09/28/09 Time: 1811
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 556-67-2	Cyclotetrasiloxane, octamethyl	10.771	.169	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-FD-1031 (SW51)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233107

Level: (low/med)

Lab File ID: 2090928J2460

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1045

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1834

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-FD-1031 (SW51)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20909233107

Level: (low/med) Lab File ID: 2090928/2460

% Moisture: not dec. Date Collected: 09/22/09 Time: 1045

GC Column: ID: (mm) Date Received: 09/23/09

Instrument ID: MSV5 Date Analyzed: 09/28/09 Time: 1834

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-FD-1031 (SW51)

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092331
Matrix:	Water	Lab Sample ID: 20909233107	
Sample wt/vol:	Units:	Lab File ID: 2090928/2460T	
Level: (low/med)		Date Collected:	09/22/09 Time: 1045
% Moisture:	not dec.	Date Received:	09/23/09
GC Column:	ID: (mm)	Date Analyzed:	09/28/09 Time: 1834
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μ L)		
Soil Aliquot Volume:	(μ L)		

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 556-67-2	Cyclotetrasiloxane, octamethyl	10.771	.167	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-TB-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233108

Level: (low/med)

Lab File ID: 2090929/2490

% Moisture: not dec.

Date Collected: 09/22/09

Time: 0000

GC Column:

ID:

(mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/29/09

Time: 1259

Soil Extract Volume:

(μ L)

Dilution Factor: 1

Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch:

Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-TB-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233108

Level: (low/med)

Lab File ID: 2090929/2490

% Moisture: not dec.

Date Collected: 09/22/09 Time: 0000

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1259

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-TB-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092331
Matrix:	Water		Lab Sample ID: 20909233108
Sample wt/vol:		Units:	Lab File ID: 2090929/2490T
Level: (low/med)			Date Collected: 09/22/09 Time: 0000
% Moisture: not dec.			Date Received: 09/23/09
GC Column:		ID: (mm)	Date Analyzed: 09/29/09 Time: 1259
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:		(μL)	
Soil Aliquot Volume:		(μL)	

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.094	.162	
2. 556-67-2	Cyclotetrasiloxane, octamethyl	10.747	.213	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL					Sample ID:	SK-SW50-1031				
Lab Code:	LA024	Case No.:						Contract:			
SAS No.:			SDG No.:	209092331					Lab File ID:	2090930/d6443	
Matrix:	Water					Lab Sample ID:	20909233101				
Sample wt/vol:	990	Units:	mL					Date Collected:	09/22/09	Time:	1240
Level: (low/med)	LOW					Date Received:	09/23/09				
% Moisture:	decanted: (Y/N)					Date Extracted:	09/24/09				
GC Column:	DB-5MS-30M	ID:	.25	(mm)		Date Analyzed:	09/30/09	Time:	0929		
Concentrated Extract Volume:	1000		(μ L)		Dilution Factor:	1	Analyst:	KCB			
Injection Volume:	1.0		(μ L)		Prep Method:	OLM4.2 SVOA					
GPC Cleanup: (Y/N)	N	pH:						Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS: ug/L											
CAS NO.		COMPOUND	RESULT	Q	MDL	RL					
95-95-4	2,4,5-Trichlorophenol		10	U	0.01	10					
88-06-2	2,4,6-Trichlorophenol		10	U	0.01	10					
120-83-2	2,4-Dichlorophenol		10	U	0.01	10					
51-28-5	2,4-Dinitrophenol		25	U	0.01	25					
121-14-2	2,4-Dinitrotoluene		10	U	0.01	10					
606-20-2	2,6-Dinitrotoluene		10	U	0.01	10					
91-58-7	2-Chloronaphthalene		10	U	0.01	10					
95-57-8	2-Chlorophenol		10	U	0.01	10					
91-57-6	2-Methylnaphthalene		10	U	0.01	10					
88-74-4	2-Nitroaniline		25	U	0.01	25					
88-75-5	2-Nitrophenol		10	U	0.01	10					
91-94-1	3,3'-Dichlorobenzidine		10	U	0.01	10					
99-09-2	3-Nitroaniline		25	U	0.01	25					
534-52-1	2-Methyl-4,6-dinitrophenol		25	U	0.01	25					
59-50-7	4-Chloro-3-methylphenol		10	U	0.01	10					
106-47-8	4-Chloroaniline		10	U	0.01	10					
7005-72-3	4-Chlorophenyl-phenylether		10	U	0.01	10					
106-44-5	4-Methylphenol (p-Cresol)		10	U	0.01	10					
83-32-9	Acenaphthene		10	U	0.01	10					
208-96-8	Acenaphthylene		10	U	0.01	10					
120-12-7	Anthracene		10	U	0.01	10					
56-55-3	Benzo(a)anthracene		10	U	0.01	10					
50-32-8	Benzo(a)pyrene		10	U	0.01	10					
205-99-2	Benzo(b)fluoranthene		10	U	0.01	10					
191-24-2	Benzo(g,h,i)perylene		10	U	0.01	10					
207-09-9	Benzo(k)fluoranthene		10	U	0.01	10					
111-91-1	Bis(2-Chloroethoxy)methane		10	U	0.01	10					
111-44-4	Bis(2-Chloroethyl)ether		10	U	0.01	10					
108-60-1	bis(2-Chloroisopropyl)ether		10	U	0.01	10					

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW50-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6443
 Matrix: Water Lab Sample ID: 20909233101
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1240
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 0929
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 Instrument ID: MSSV4
 CONCENTRATION UNITS: ug/L Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	2 ID	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

8/11/2011
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-SW50-1031		
Lab Code:	LA024	Case No.:			
SAS No.:		SDG No.:	209092331		
Matrix:	Water		Contract:		
Sample wt/vol:	990	Units: mL	Lab File ID:	2090930/d6443	
Level: (low/med)	LOW		Lab Sample ID:	20909233101	
% Moisture:		decanted: (Y/N)	Date Collected:	09/22/09	Time: 1240
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Received:	09/23/09	
Concentrated Extract Volume:	1000	(μL)	Date Extracted:	09/24/09	
Injection Volume:	1.0	(μL)	Date Analyzed:	09/30/09	Time: 0929
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1 Analyst: KCB	
CONCENTRATION UNITS: ug/L					
CAS NO. COMPOUND		RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-SW50-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6443
 Matrix: Water Lab Sample ID: 20909233101
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1240
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: not dec. Date Extracted: 09/24/2009
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 0929
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: SW-846 8270C OLM4.2
 Instrument ID: MSSV4

Number TICs Found: 10

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	Unknown	.724	4.8	
2.	Unknown	1.302	14.8	
3.	Unknown	.778	16.2	
4.	40467-04-7 2-Hexene, 2,5,5-trimethyl-	.81	3.72	
5.	Unknown	.837	4.29	
6.	Unknown	1.013	2.95	
7.	Unknown	1.163	8.87	
8.	Unknown	1.206	3.01	
9.	Unknown	1.254	3	
10.	Unknown	1.286	22.5	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-MS-1031 (SW50)		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:			SDG No.:	209092331			
Matrix:	Water			Lab File ID:	2090930/d6446		
Sample wt/vol:	990	Units:	ml	Lab Sample ID:	20909233102		
Level: (low/med)	LOW			Date Collected:	09/22/09	Time:	1240
% Moisture:	decanted: (Y/N)			Date Received:	09/23/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Extracted:	09/24/09		
Concentrated Extract Volume:	1000	(μ L)		Date Analyzed:	09/30/09	Time:	1015
Injection Volume:	1.0	(μ L)		Dilution Factor:	1	Analyst:	KCB
GPC Cleanup: (Y/N)	N	pH:		Prep Method:	OLM4.2 SVOA		
CONCENTRATION UNITS: ug/L				Analytical Method:	OLMO 4.2		
				Instrument ID:	MSSV4		
				Prep Batch:	418879	Analytical Batch:	419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	40		0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	57		0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	55		0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	41		0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-MS-1031 (SW50)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6446
 Matrix: Water Lab Sample ID: 20909233102
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1240
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1015
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10 ✓	J B	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	51		0.01	25
87-86-5	Pentachlorophenol	66		0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	56		0.01	10
129-00-0	Pyrene	43		0.01	10
621-64-7	N-Nitroso-di-n-propylamine	41		0.01	10

1B
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-MS-1031 (SW50)		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:	SDG No.: 209092331			Lab File ID:	2090930/d6446		
Matrix:	Water			Lab Sample ID:	20909233102		
Sample wt/vol:	990	Units:	mL	Date Collected:	09/22/09	Time:	1240
Level: (low/med)	LOW			Date Received:	09/23/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/24/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1015
Concentrated Extract Volume:	1000	(μ L)		Dilution Factor:	1	Analyst:	KCB
Injection Volume:	1.0	(μ L)		Prep Method:	OLM4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS: ug/L				Instrument ID:	MSSV4		
				Prep Batch:	418879	Analytical Batch:	419087
				RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine			10	U	0.01	10
95-48-7	o-Cresol			10	U	0.01	10

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-MSD-1031 (SW50)	
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:	SDG No.: 209092331		Lab File ID:	2090930/d6445	
Matrix:	Water		Lab Sample ID:	20909233103	
Sample wt/vol:	990	Units: mL	Date Collected:	09/22/09	Time: 1240
Level: (low/med)	LOW		Date Received:	09/23/09	
% Moisture:	decanted: (Y/N)		Date Extracted:	09/24/09	
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Analyzed:	09/30/09	Time: 1000
Concentrated Extract Volume:	1000	(μL)	Dilution Factor:	1	Analyst: KCB
Injection Volume:	1.0	(μL)	Prep Method:	OLM4.2 SVOA	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	39		0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	57		0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	56		0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	41		0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-MSD-1031 (SW50)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6445
 Matrix: Water Lab Sample ID: 20909233103
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1240
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1000
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10	U	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	50		0.01	25
87-86-5	Pentachlorophenol	66		0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	54		0.01	10
129-00-0	Pyrene	43		0.01	10
621-64-7	N-Nitroso-di-n-propylamine	41		0.01	10

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-MSD-1031 (SW50)		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:	SDG No.: 209092331			Lab File ID:	2090930/d6445		
Matrix:	Water			Lab Sample ID:	20909233103		
Sample wt/vol:	990	Units:	ml	Date Collected:	09/22/09	Time:	1240
Level: (low/med)	LOW			Date Received:	09/23/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/24/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1000
Concentrated Extract Volume:	1000	(μ L)		Dilution Factor:	1	Analyst:	KCB
Injection Volume:	1.0	(μ L)		Prep Method:	OLM4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS: ug/L				Instrument ID:	MSSV4		
				Prep Batch:	418879	Analytical Batch:	419087
CAS NO.	COMPOUND	RESULT	Q	MDL	RL		
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10		
95-48-7	<i>o</i> -Cresol	10	U	0.01	10		

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW51-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6463
 Matrix: Water Lab Sample ID: 20909233105
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1045
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1533
 Concentrated Extract Volume: 1000 (μL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (μL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW51-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6463
 Matrix: Water Lab Sample ID: 20909233105
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1045
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1533
 Concentrated Extract Volume: 1000 (μL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (μL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 Instrument ID: MSSV4

CONCENTRATION UNITS: ug/L

Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10	U	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

JCM
21 DEC 2009

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092331
 Matrix: Water
 Sample wt/vol: 990 Units: mL
 Level: (low/med) LOW
 % Moisture: _____ decanted: (Y/N) _____
 GC Column: DB-5MS-30M ID: .25 (mm)
 Concentrated Extract Volume: 1000 (µL)
 Injection Volume: 1.0 (µL)
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS: ug/L

CAS NO. COMPOUND

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

11/11/10
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1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Sample ID: SK-SW51-1031

Lab Code: LA024

Case No.:

Contract:

SAS No.:

SDG No.: 209092331

Lab File ID: 2090930/d6463

Matrix: Water

Lab Sample ID: 20909233105

Sample wt/vol: 990

Units: mL

Date Collected: 09/22/09

Time: 1045

Level: (low/med)

LOW

Date Received: 09/23/09

% Moisture: not dec.

Date Extracted: 09/24/2009

GC Column: DB-5MS-30M

ID: .25

(mm)

Date Analyzed: 09/30/09

Time: 1533

Concentrated Extract Volume: 1000

(μ L)

Dilution Factor: 1

Analyst: KCB

Injection Volume: 1.0

(μ L)

Prep Method: OLM4.2 SYOA

GPC Cleanup: (Y/N) N

pH:

Analytical Method: SW-846 8270C OLM4.2

Instrument ID: MSSV4

Number TICs Found : 10

CONCENTRATION UNITS: ug/L

CAS NO. COMPOUND

RT

EST. CONC.

Q

1.	141-79-7	3-Penten-2-one, 4-methyl-	.687	17.5	
2.		Unknown	1.302	10.7	
3.		Unknown	.735	4.82	
4.		Unknown	.783	7.48	
5.	26456-76-8	2-Hexene, 3,5,5-trimethyl-	.815	2.46	
6.		Unknown	.842	2.69	
7.		Unknown	.858	3.82	
8.		Unknown	1.163	7.29	
9.		Unknown	1.211	2.38	
10.		Unknown	1.286	12.8	

JFM
 21-DEC-2009

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW52-1031
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6464
 Matrix: Water Lab Sample ID: 20909233106
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1010
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1548
 Concentrated Extract Volume: 1000 (μL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (μL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW52-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6464
 Matrix: Water Lab Sample ID: 20909233106
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1010
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1548
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10	U	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW52-1031
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6464
 Matrix: Water Lab Sample ID: 20909233106
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1010
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1548
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

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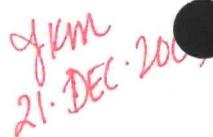
1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-SW52-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6464
 Matrix: Water Lab Sample ID: 20909233106
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1010
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: not dec. Date Extracted: 09/24/2009
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1548
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: SW-846-8270C OLM04.2
 Instrument ID: MSSV4

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 141-79-7	3-Penten-2-one, 4-methyl-	.687	17.3	
2.	Unknown	1.302	10.8	
3.	Unknown	.735	3.78	
4.	Unknown	.789	7.7	
5. 26456-76-8	2-Hexene, 3,5,5-trimethyl-	.815	2.28	
6.	Unknown	.842	2.79	
7.	Unknown	.858	3.26	
8.	Unknown	1.168	6.87	
9.	Unknown	1.211	2.1	
10.	Unknown	1.286	12	


 AFM
 21 DEC 2009

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____
 SAS No.: _____ SDG No.: 209092331
 Matrix: Water
 Sample wt/vol: 990 Units: mL
 Level: (low/med) LOW
 % Moisture: _____ decanted: (Y/N) _____
 GC Column: DB-5MS-30M ID: .25 (mm)
 Concentrated Extract Volume: 1000 (μL)
 Injection Volume: 1.0 (μL)
 GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS: ug/L

CAS NO. COMPOUND

		RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benz(a)anthracene	10	U	0.01	10
50-32-8	Benz(a)pyrene	10	U	0.01	10
205-99-2	Benz(b)fluoranthene	10	U	0.01	10
191-24-2	Benz(g,h,i)perylene	10	U	0.01	10
207-08-9	Benz(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

FORM I SV-1

219

resubmitted
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-FD-1031 (SW51)
 Lab Code: LA024 Case No.: _____ Contract: _____
 SAS No.: _____ SDG No.: 209092331 Lab File ID: 2090930/d6465
 Matrix: Water Lab Sample ID: 20909233107
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1045
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: _____ decanted: (Y/N) _____ Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1603
 Concentrated Extract Volume: 1000 (μL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (μL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10 ✓	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

FORM I SV-1

11510
resubmitted

214
resubmitted

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>GCAL</u>	Sample ID: <u>SK-FD-1031 (SW51)</u>				
Lab Code: <u>LA024</u>	Case No.: _____				
SAS No.: _____	SDG No.: <u>209092331</u>				
Matrix: <u>Water</u>	Contract: _____				
Sample wt/vol: <u>990</u>	Units: <u>mL</u>				
Level: (low/med) <u>LOW</u>	Lab File ID: <u>2090930/d6465</u>				
% Moisture: _____	Lab Sample ID: <u>20909233107</u>				
GC Column: <u>DB-5MS-30M</u>	Date Collected: <u>09/22/09</u> Time: <u>1045</u>				
Concentrated Extract Volume: <u>1000</u> (µL)	Date Received: <u>09/23/09</u>				
Injection Volume: <u>1.0</u> (µL)	Date Extracted: <u>09/24/09</u>				
GPC Cleanup: (Y/N) <u>N</u> pH: _____	Date Analyzed: <u>09/30/09</u> Time: <u>1603</u>				
CONCENTRATION UNITS: ug/L					
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

FORM I SV-1

resubmitted 214A
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MSD-

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-FD-1031 (SW51)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2090930/d6465
 Matrix: Water Lab Sample ID: 20909233107
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1045
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: not dec. Date Extracted: 09/24/2009
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1603
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SNOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: SW-846 8270C OLM04.2
 Instrument ID: MSSV4

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 141-79-7	3-Penten-2-one, 4-methyl-	.692	26.5	
2.	Unknown	1.307	11.7	
3.	Unknown	.74	31.2	
4.	Unknown	.794	9.14	
5. 26456-76-8	2-Hexene, 3,5,5-trimethyl-	.821	3.92	
6.	Unknown	.858	16.2	
7.	Unknown	1.168	6.92	
8.	Unknown	1.227	3.78	
9.	Unknown	1.259	8.64	
10.	Unknown	1.291	25.2	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW51-1031 (RE)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2091005/d6527
 Matrix: Water Lab Sample ID: 20909233116
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1045
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 10/01/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 10/05/09 Time: 0945
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 419262 Analytical Batch: 419436

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW51-1031 (RE)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2091005/d6527
 Matrix: Water Lab Sample ID: 20909233116
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1045
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 10/01/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 10/05/09 Time: 0945
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 Instrument ID: MSSV4
 CONCENTRATION UNITS: ug/L Prep Batch: 419262 Analytical Batch: 419436

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	2/10	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW51-1031 (RE)

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 209092331

Matrix: Water

Sample wt/vol: 990 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (μL)

Injection Volume: 1.0 (μL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Contract:

Lab File ID: 2091005/d6527

Lab Sample ID: 20909233116

Date Collected: 09/22/09 Time: 1045

Date Received: 09/23/09

Date Extracted: 10/01/09

Date Analyzed: 10/05/09 Time: 0945

Dilution Factor: 1 Analyst: KCB

Prep Method: OLM4.2 SVOA

Analytical Method: OLMO 4.2

Instrument ID: MSSV4

Prep Batch: 419262 Analytical Batch: 419436

CAS NO. COMPOUND

RESULT Q MDL RL

86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

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413

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW52-1031 (RE)
 Lab Code: LA024 Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2091005/d6528
 Matrix: Water Lab Sample ID: 20909233117
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1010
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 10/01/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 10/05/09 Time: 1000
 Concentrated Extract Volume: 1000 (μL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (μL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 419262 Analytical Batch: 419436

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW52-1031 (RE)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092331 Lab File ID: 2091005/d6528
 Matrix: Water Lab Sample ID: 20909233117
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1010
 Level: (low/med) LOW Date Received: 09/23/09
 % Moisture: decanted: (Y/N) Date Extracted: 10/01/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 10/05/09 Time: 1000
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 419262 Analytical Batch: 419436

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	270	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzo-furan	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-SW52-1031 (RE)		
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:		SDG No.:	209092331	Lab File ID:	2091005/d6528
Matrix:	Water			Lab Sample ID:	20909233117
Sample wt/vol:	990	Units:	mL	Date Collected:	09/22/09 Time: 1010
Level: (low/med)	LOW			Date Received:	09/23/09
% Moisture:		decanted:	(Y/N)	Date Extracted:	10/01/09
GC Column:	DB-5MS-30M	ID:	.25	(mm)	Date Analyzed: 10/05/09 Time: 1000
Concentrated Extract Volume:	1000		(μL)	Dilution Factor:	1 Analyst: KCB
Injection Volume:	1.0		(μL)	Prep Method:	OLM4.2 SVOA
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2
CONCENTRATION UNITS:	ug/L			Instrument ID:	MSSV4
				Prep Batch:	419262 Analytical Batch: 419436
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-SW50-1031	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092331	
Sample wt/vol:	990	Units: mL	Lab Sample ID:	20909233101	
Level: (low/med)	LOW		Date Collected:	09/22/09	Time: 1240
% Moisture:	decanted: (Y/N)		Date Received:	09/23/09	
GC Column:	ID:	(mm)	Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μL)	Date Analyzed:	10/14/09	Time: 2036
Soil Aliquot Volume:		(μL)	Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μL)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N
CONCENTRATION UNITS:	ug/L		Instrument ID:	GCS18A	
			Lab File ID:	2091014p/sv18a019	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

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1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-SW51-1031
 Lab Code: LA024 Case No.: Contract:
 Matrix: Water SAS No.: SDG No.: 209092331
 Sample wt/vol: 980 Units: mL Lab Sample ID: 20909233105
 Level: (low/med) LOW Date Collected: 09/22/09 Time: 1045
 % Moisture: decanted: (Y/N) Date Received: 09/23/09
 GC Column: ID: (mm) Date Extracted: 09/24/09
 Concentrated Extract Volume: 10000 (μL) Date Analyzed: 10/14/09 Time: 2149
 Soil Aliquot Volume: (μL) Dilution Factor: 1 Analyst: DLB
 Injection Volume: 1 (μL) Prep Method: OLM4.2 PEST/PCB
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 Prep Batch: 418878 Analytical Batch: 420022 Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
 CONCENTRATION UNITS: ug/L Lab File ID: 2091014p/sv18a023

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.02	U	0.00102	1.02
72-55-9	4,4'-DDE	1.02	U	0.00102	1.02
50-29-3	4,4'-DDT	1.02	U	0.00102	1.02
309-00-2	Aldrin	0.510	U	0.00102	0.510
12674-11-2	Aroclor-1016	10.2	U	0.00102	10.2
11104-28-2	Aroclor-1221	20.4	U	0.00102	20.4
11141-16-5	Aroclor-1232	10.2	U	0.00102	10.2
53463-21-9	Aroclor-1242	10.2	U	0.00102	10.2
12672-29-6	Aroclor-1248	10.2	U	0.00102	10.2
11097-69-1	Aroclor-1254	10.2	U	0.00102	10.2
11096-82-5	Aroclor-1260	10.2	U	0.00102	10.2
60-57-1	Dieldrin	1.02	U	0.00102	1.02
959-98-8	Endosulfan I	0.510	U	0.00102	0.510
33213-65-9	Endosulfan II	1.02	U	0.00102	1.02
1031-07-8	Endosulfan sulfate	1.02	U	0.00102	1.02
72-20-8	Endrin	1.02	U	0.00102	1.02
7421-93-4	Endrin aldehyde	1.02	U	0.00102	1.02
53494-70-5	Endrin ketone	1.02	U	0.00102	1.02
76-44-8	Heptachlor	0.510	U	0.00102	0.510
1024-57-3	Heptachlor epoxide	0.510	U	0.00102	0.510
72-43-5	Methoxychlor	5.10	U	0.00102	5.10
8001-35-2	Toxaphene	51.0	U	0.00102	51.0
319-84-6	alpha-BHC	0.510	U	0.00102	0.510
5103-71-9	alpha-Chlordane	0.510	U	0.00102	0.510
319-85-7	beta-BHC	0.510	U	0.00102	0.510
319-86-8	delta-BHC	0.510	U	0.00102	0.510
58-89-9	gamma-BHC (Lindane)	0.510	U	0.00102	0.510
5103-74-2	gamma-Chlordane	0.510	U	0.00102	0.510

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1D
ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-SW52-1031	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092331	
Sample wt/vol:	990	Units: mL	Lab Sample ID:	20909233106	
Level: (low/med)	LOW		Date Collected:	09/22/09	Time: 1010
% Moisture:	decanted: (Y/N)		Date Received:	09/23/09	
GC Column:	ID:	(mm)	Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μ L)	Date Analyzed:	10/14/09	Time: 2207
Soil Aliquot Volume:		(μ L)	Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μ L)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N
CONCENTRATION UNITS:	ug/L		Instrument ID:	GCS18A	
			Lab File ID:	2091014p/sv18a024	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

21 DEC 2009
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ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-FD-1031 (SW51)	
Lab Code:	L A 0 2 4	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092331	
Sample wt/vol:	990	Units: mL	Lab Sample ID:	20909233107	
Level: (low/med)	LOW		Date Collected:	09/22/09	Time: 1045
% Moisture:	decanted: (Y/N)		Date Received:	09/23/09	
GC Column:	ID:	(mm)	Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μL)	Date Analyzed:	10/14/09	Time: 2225
Soil Aliquot Volume:	(μL)		Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μL)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N
CONCENTRATION UNITS: ug/L			Instrument ID:	GCS18A	
			Lab File ID:	2091014p/sv18a025	

CAS NO. COMPOUND

			RESULT	Q	MDL	RL
72-54-8	4,4'-DDD		1.01	U	0.00101	1.01
72-55-9	4,4'-DDE		1.01	U	0.00101	1.01
50-29-3	4,4'-DDT		1.01	U	0.00101	1.01
309-00-2	Aldrin		0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016		10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221		20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232		10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242		10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248		10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254		10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260		10.1	U	0.00101	10.1
60-57-1	Dieldrin		1.01	U	0.00101	1.01
959-98-8	Endosulfan I		0.505	U	0.00101	0.505
33213-65-9	Endosulfan II		1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate		1.01	U	0.00101	1.01
72-20-8	Endrin		1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde		1.01	U	0.00101	1.01
53494-70-5	Endrin ketone		1.01	U	0.00101	1.01
76-44-8	Heptachlor		0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide		0.505	U	0.00101	0.505
72-43-5	Methoxychlor		5.05	U	0.00101	5.05
8001-35-2	Toxaphene		50.5	U	0.00101	50.5
319-84-6	alpha-BHC		0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane		0.505	U	0.00101	0.505
319-85-7	beta-BHC		0.505	U	0.00101	0.505
319-86-8	delta-BHC		0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)		0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane		0.505	U	0.00101	0.505

Jim
 21. Oct. 2009

U.S. EPA - CLP

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EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

SK-SW50-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233101

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	8.0	B		P
7440-39-3	Barium	37.9	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	66100		E	P
7440-47-3	Chromium	0.6	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	3.1	B		P
7439-89-6	Iron	27.6	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	17700		E	P
7439-96-5	Manganese	0.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3280	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	44300		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SK-SW51-1031

Lab Name: GCAL Contract:
Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092331

Matrix: (soil / water) Water Lab Sample ID: 20909233105

Level: (low / med) Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	5.9	B		P
7440-39-3	Barium	36.7	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	65100		E	P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	45.6	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	17400		E	P
7439-96-5	Manganese	7.5	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3140	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	43400		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-SW52-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233106

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	335			P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	7.3	B		P
7440-39-3	Barium	39.0	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	63800		E	P
7440-47-3	Chromium	0.6	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	3.2	B		P
7439-89-6	Iron	643			P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	16800		E	P
7439-96-5	Manganese	33.3			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3050	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	42700		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-FD-1031 (SW51)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233107

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U		P
7440-39-3	Barium	35.8	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	63200		E	P
7440-47-3	Chromium	0.7	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	2.6	B		P
7439-89-6	Iron	35.8	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	16500		E	P
7439-96-5	Manganese	5.6	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3050	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	42500		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-SW50-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233110

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	38.5	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	66400		E	P
7440-47-3	Chromium	0.7	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	5.3	U		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	17800		E	P
7439-96-5	Manganese	0.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3290	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	43900		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SK-SW51-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233113

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	4.1	B	N	P
7440-39-3	Barium	37.2	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	64900		E	P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	5.3	U		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	17400		E	P
7439-96-5	Manganese	4.6	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3120	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	43400		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-SW52-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233114

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	9.2	B	N	P
7440-39-3	Barium	37.3	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	64900		E	P
7440-47-3	Chromium	1.0	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	14.7	B		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	16900		E	P
7439-96-5	Manganese	1.3	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3130	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	43900		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SK-FD-1031 (SW51) DISS

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092331

Matrix: (soil / water) Water

Lab Sample ID: 20909233115

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	37.1	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	63200		E	P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	5.3	U		P
7439-92-1	Lead	1.6	U		P
7439-95-4	Magnesium	16900		E	P
7439-96-5	Manganese	5.1	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3140	B	E	P
7782-49-2	Selenium	3.3	U	N	P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	42900		E	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

AECOM: PROJECT NUMBER 60134280

LABORATORY REPORT NUMBER 209092332

PROJECT MANAGER: Ron Roelker

Date: December 31, 2009

Data Validator: Janelle Murphy/Mark Kromis

LIST OF ACRONYMS

BFB	Bromofluorobenzene
CC	Continuing Calibration
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blanks
CLP	Contract Laboratory Program
CRDL	Contract Required Detection Limit
DFTPP	Decafluorotriphenylphosphine
GC/MS	Gas Chromatograph/Mass Spectrometer
GCAL	Gulf Coast Analytical Laboratories
IC	Initial Calibration
ICB	Initial Calibration Blank
IDL	Instrument Detection Limit
ICP	Inductively Coupled Plasma
ICS	Interference Check Sample
ICV	Initial Calibration Verification
ILM	Inorganic Analysis Multi-Media Multi-Concentration
INDAM	Individual A Mixture
INDBM	Individual B Mixture
mg/L	milligrams per liter
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OLC	Organic Analysis Low Concentration
OLM	Organic Analysis Multi-Media Multi-Concentration
%D	Percent Difference
% RSD	Percent Relative Standard Deviation
PB	Preparation Blanks
PEM	Performance Evaluation Mix
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RRF	Relative Response Factor
SDG	Sample Delivery Group
SOW	Statement of Work
µg/L	micrograms per liter
US EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
VTSR	Validated Time of Sample Receipt

**DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 209092332
INORGANICS**

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Inorganic Data Review, (US EPA, September, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 209092332.

GCAL #	Sample Description
20909233201	SK-GW64-1031
20909233202	SK-GW65-1031
20909233204	SK-GW64-1031 (DISS)
20909233205	SK-FD-1031(GW63)
20909233206	SK-SW52-1031
20909233207	SK-GW6R-1031
20909233208	SK-GW7R-1031
20909233209	SK-GW62A-1031
20909233210	SK-FD-1031 (GW6R)
20909233212	SK-GW63-1031 (DISS)
20909233213	SK-FD-1031(GW63) (DISS)
20909233214	SK-GW6R-1031 (DISS)
20909233215	SK-GW7R-1031 DISS
20909233216	SK-GW62A-1031 (DISS)
20909233217	SK-FD-1031 (GW6R) DISS
20909233218	SK-GW58-1031
20909233219	SK-MS-1031 (GW58)
20909233221	SK-DUP-1031 (GW58)
20909233222	SK-GW59-1031
20909233223	SK-GW61-1031
20909233224	SK-GW60-1031
20909233226	SK-GW58-1031 DISS
20909233227	SK-MS-1031 (GW58) DISS
20909233228	SK-DUP-1031 (GW58) DISS
20909233229	SK-GW59-1031 DISS
20909233230	SK-GW61-1031 DISS
20909233231	SK-GW60-1031 DISS

INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified.

Unqualified results mean that the reported values maybe used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user.

Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
 - A. Initial Calibration (IC)
 - B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample

-
- 5. Laboratory Control Sample (LCS)
 - 6. Duplicate Analysis
 - 7. Spike Sample Analysis
 - 8. ICP Serial Dilution
 - 9. System Performance
 - 10. Documentation
 - 11. Overall Assessment

1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. CALIBRATION

A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards analyzed on 10/7/09 were 150%, 120%, and 126%.

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards analyzed on 10/7/09 were 140%, 104%, and 142%.

The percent recoveries for Chromium in the Contract Required Detection Limit (CRDL) standards analyzed on 10/7/09 were 80%, 65%, and 64%.

As per the National Functional Guidelines, if the CRDL percent recovery is less than 80% then detected results are qualified "J" and non-detected results are qualified with "UJ". If the CRDL percent recovery is greater than 120% then detected results are qualified "J".

B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB above the corresponding Contract Required Detection Limit (CRDL).

4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

6. DUPLICATE ANALYSIS

The laboratory used sample SK-GW58-1031 (total and dissolved fractions) for the duplicate samples. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target analytes with the exception of Aluminum (47%) associated with the total fraction. As per the National Functional Guidelines, if the percent recovery is outside of the acceptance criteria of (<20%) then qualify detected results for that analyte with "J" and non-detected results with "UJ".

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SK-GW58-1031 (total and dissolved fractions) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75-125%) for all analytes with the exception of Arsenic (69%, 68%) and Thallium (72%, 70%) associated with the total and dissolved fractions. As per the National Functional Guidelines, if the percent recovery is greater than 30% but less than 74% then qualify detected results for that analyte with "J" and non-detected results are qualified with "UJ".

8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Iron (13%) and Potassium (11%) associated with the total fraction and Manganese (20%) associated with the dissolved fraction. As per the National Functional Guidelines, if the serial dilution %D exceeds the acceptance criteria then detected results are qualified "J" and non-detected results are qualified with "UJ".

9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

10. DOCUMENTATION

GCAL appended an "E" qualifier to the total fraction for Aluminum and the total and dissolved fractions for Lead. The data validator manually crossed out the "E" qualifier associated with the total fraction for Aluminum and the total and dissolved fractions for Lead because the serial dilutions for Aluminum and Lead are within the acceptance criteria.

11. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 209092332 SEMICONDUCTIVE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 209092332.

GCAL #	Sample Description
20909233201	SK-GW64-1031
20909233205	SK-GW63-1031
20909233206	SK-FD-1031 (GW63)
20909233207	SK-GW6R-1031
20909233208	SK-GW7R-1031
20909233209	SK-GW62A-1031
20909233210	SK-FD-1031 (GW6R)
20909233218	SK-GW58-1031
20909233219	SK-MS-1031 (GW58)
20909233220	SK-MSD-1031 (GW58)
20909233222	SK-GW59-1031
20909233223	SK-GW61-1031

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
 - A. IC
 - B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C. All samples were initially extracted within the seven-day technical holding time and the five-day Validated Time of Sample Receipt (VTSR) method holding time.

2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV4. Two decafluorotriphenylphosphine (DFTPP) tunes were run representing the shift in which the standards and samples were analyzed. The DFTPP tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/30/09 was analyzed on instrument MSSV4 in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent Relative Standard Deviation (%RSD) values was accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds.

The RRFs and the average RRF for the ICs were within the acceptance criteria specified in the method for all target compounds. The %RSDs were within the acceptance criteria (<30%) specified in the method for all target compounds with the exception of Indeno(1,2,3-cd)pyrene (34%). The data validator dropped the lowest point of the calibration curve for Indeno(1,2,3-cd)pyrene and re-calculated the %RSD. The re-calculated %RSD for Indeno(1,2,3-cd)pyrene was 25%, which is within the acceptance criteria of less than or equal to 30%.

B. Continuing Calibration

Two CCs dated 9/30/09 and 10/1/09 were analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRFs for the CC was within the acceptance criteria specified in the method for all target compounds. The percent difference (%D) between the average RRFs and the CC Response Factors were within the acceptance criteria (<25%) with the exception of Indeno(1,2,3-cd)pyrene (28%) on 9/30/09 and Diethylphthalate (104%) on 10/1/09. As per the National Functional Guidelines, if the %D is outside the < 25% criterion then qualify detected results for that compound with "J" and non-detected results for that compound with "UJ".

4. BLANKS

Two laboratory semivolatile method blanks were analyzed with this SDG. The results are summarized below.

Method Blank (MB761815)

Bis(2-ethylhexyl)phthalate (2 ppb) was detected in the method blank extracted on 9/24/09.

Method Blank (MB762774)

There were no semivolatile target compounds detected in the method blank extracted on 9/28/09.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of 2-Fluorobiphenyl and 2-Chlorophenol-d4 associated with SK-GW64-1031. The samples were reanalyzed and 2-Fluorobiphenyl and 2-Chlorophenol-d4 were within the acceptable control limits. As per the National Functional Guidelines data are not qualified with respect to surrogate recovery unless two or more semivolatile surrogates, within the same fraction (base/neutral or acid fraction), are out of specification.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SK-GW58-1031 was submitted for MS/MSD analysis. The MS/MSD percent recoveries are within the acceptance criteria. All of the RPDs between the MS and MSD were within the acceptance criteria.

7. INTERNAL STANDARDS PERFORMANCE

Internal standard (IS) areas and Retention Times (RT) were within the acceptance limits for the reported semivolatile samples with the exception of Perylene-d12 associated with sample SK-GW64-1031. The sample was reanalyzed and Perylene-d12 was within the acceptable control limits. The data validator utilized the reanalyzed sample results for validation purposes.

8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

11. DOCUMENTATION

The “Start Cal Date” on pages 450-454 and 496-498 was incorrectly reported as 12 JUN 2009 13:06. The data validator manually corrected the date to read 30 SEP 2009 07:37.

There were no sample volumes, units, date extracted, or preparation method listed on Form I SV-TIC. The analytical method reported by the GCAL on the Form I SV-TIC was listed as SW-846 8270C when it should have been listed as OLM04.2. The data validator manually made the corrections.

12. OVERALL ASSESSMENT

Bis(2-ethylhexyl)phthalate was detected in samples SK-GW59-1031 and SK-GW61-1031 at concentrations of 0.6 ppb and 0.8 ppb respectively. Although Bis(2-ethylhexyl)phthalate was not detected in the associated method blank MB762774 extracted with the samples above it was detected in method blank MB761815 associated with SDG 209092332. The data validator suggest that if Bis(2-ethylhexyl)phthalate has been historically detected in samples SK-GW59-1031 and SK-GW61-1031 then the result of 0.6 ppb for sample SK-GW59-1031 and 0.8 ppb for sample SK-GW61-1031 should be used for regulatory reporting. If Bis(2-ethylhexyl)phthalate has not been historically detected in sample SK-GW59 and SK-GW61 then the result should be reported as 10.0 “U”.

The results are acceptable with the validator-added qualifiers.

**DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 209092332
VOLATILE ORGANIC**

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 209092332.

GCAL #	Sample Description
20909233201	SK-GW64-1031
20909233202	SK-GW65-1031
20909233203	VHBLK
20909233205	SK-GW63-1031
20909233206	SK-FD-1031 (GW63)
20909233207	SK-GW6R-1031
20909233208	SK-GW7R-1031
20909233209	SK-GW62A-1031
20909233210	SK-FD-1031 (GW6R)
20909233211	SK-TB-1031
20909233218	SK-GW58-1031
20909233219	SK-MS-1031 (GW58)
20909233220	SK-MSD-1031 (GW58)
20909233222	SK-GW59-1031
20909233223	SK-GW61-1031
20909233224	SK-GW60-1031
20909233225	SK-TB-1031

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
 - A. IC
 - B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation

13. Overall Assessment

1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

2. GC/MS TUNING

The samples were analyzed on one GC/MS system identified as MSV5. Two bromofluorobenzene (BFB) tunes were run on MSV5 on 9/28/09 and 9/29/09. The BFB tune criteria are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/28/09 was analyzed on instrument MSV5 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRFs as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds.

The RRFs and the average RRF for the ICs were within the acceptance criteria specified in the method for all target compounds with the exception of Acetone. The %RSDs were within the acceptance criteria specified in the method for all target compounds. As per the National Functional Guidelines, if any IC RRF is less than 0.05 then qualify detected results for that compound with "J" and non-detected results for that compound with "R".

B. Continuing Calibration

Two CCs dated 9/28/09 and 9/29/09 were analyzed on instrument MSV5 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRFs and the CC RFs were within the acceptance criteria for all target compounds with the exception of 2-Hexanone (32%). As per the National Functional Guidelines, if any %D is outside of the +/- 25% range then qualify detected results for that compound with "J" and non-detected results for that compound with "UJ".

The RRFs for the CCs were within the acceptance criteria specified in the method for all target compounds with the exception of Acetone and 2-Butanone. Acetone was previously qualified under the section titled "Initial Calibration" therefore further data qualification was not warranted. As per the National Functional Guidelines, if any CC RRF is less than 0.05 then qualify detected results for that compound with "J" and non-detected results for that compound with "R".

4. BLANKS

Two laboratory volatile method blanks, a storage blank, and two trip blanks were analyzed with this SDG. The results are summarized below.

MB762790

Chloroform (0.49 ppb) was detected in method blank MB762790 analyzed on 9/28/09 (1520).

MB762964

Chloroform (0.61 ppb) was detected in method blank MB762964 analyzed on 9/29/09 (0846).

Storage Blank (VHBLK)

Chloroform (0.75 ppb) was detected in method blank Storage Blank analyzed on 9/29/09 (1433).

Trip Blank (SK-TB-1031)

There were no target compounds detected in the Trip Blank received on 9/24/09.

Trip Blank (SK-TB-1031)

There were no target compounds detected in the Trip Blank received on 9/25/09.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds (SMC) were recovered within acceptable control limits (80%-120%).

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SK-GW58-1031 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. All of the percent RPDs between the MS and MSD were within the acceptance criteria.

7. LABORATORY CONTROL SAMPLE

Two Laboratory Control Samples were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

12. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 209092332 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 2009 was conducted by AECOM using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 209092332.

GCAL #	Sample Description
20909233201	SK-GW64-1031
20909233205	SK-GW63-1031
20909233206	SK-FD-1031 (GW63)
20909233207	SK-GW6R-1031
20909233208	SK-GW7R-1031
20909233209	SK-GW62A-1031
20909233210	SK-FD-1031 (GW6R)
20909233218	SK-GW58-1031
20909233219	SK-MS-1031 (GW58)
20909233220	SK-MSD-1031 (GW58)
20909233222	SK-GW59-1031
20909233223	SK-GW61-1031

INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to AECOM for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

- U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

1. HOLDING TIMES

The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C. All samples were initially extracted within the seven-day technical holding time and the five-day Validated Time of Sample Receipt (VTSR) method holding time.

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits. The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM).

The percent breakdown for both 4,4'-DDT and endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4'-DDT and endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion for Individual standard mixtures A and B were within the acceptance criteria.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of 4,4'-DDE (29.8%) calibrated on 10/14/09. The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks. As per the National Functional Guidelines, up to two single component target pesticides (other than the surrogates) per column may exceed the 20% limit but the %RSD must be less than or equal to 30%, therefore no action is taken.

4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows. The percent difference for each of the pesticides and surrogates in the PEMs were within the acceptance criteria of ± 25.0 percent for the calibration verifications with the exception of 4,4'-DDT (25.3%) and endrin ketone (27.3%) calibrated on 10/14/09. As per the National Functional Guidelines, if the %D is outside the $> 25\%$ criterion then qualify detected results for that compound with "J" and non-detected results for that compound with "UJ".

5. BLANKS

Two laboratory method blanks were analyzed with this SDG. The results are summarized below.

Method Blank MB762846

No constituents were reported by GCAL for the method blank extracted on 9/29/09.

Method Blank MB761814

No constituents were reported by GCAL for the method blank extracted on 9/24/09.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30% - 150%) for all samples with the exception of TCX (5%) associated with sample SK-GW7R-1031 and DCB (29%) associated with sample SK-GW59-1031. As per the National Functional Guidelines, if recoveries between 10% and 30% are obtained, associated detected compounds should be qualified "J" and quantitation limits "UJ". If either pesticide surrogate recovery is between 0% and 10% and sample dilution is not a factor then detected target compounds are qualified with "J" and non-detected target compounds are qualified unusable "R".

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SK-GW58-1031 was submitted for MS/MSD analysis. All of the percent recoveries associated with the MS/MSD were within the acceptance criteria with the exception of dieldrin (37%, 38%), endrin (43%, 43%) and gamma-BHC (25%, 26%) in the MS/MSD. All of the percent RPDs between the MS and MSD were within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD results alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported.

11. DOCUMENTATION

The documentation submitted for review appeared accurate and in order.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review*.

US EPA, 1999. *National Functional Guidelines for Organic Data Review*.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 10/16/2009

GCAL Report 209092332



Deliver To AECOM/Earth Tech
One Midtown Plaza
1360 Peachtree St Suite 500
Atlanta, GA 30309
770-990-1400

Attn Mark Kromis

Customer Earth Tech

Project Skinner Landfill 3Q 2009

CASE NARRATIVE

Client: Earth Tech **Report:** 209092332

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLC02.1- CLP Volatile analysis of sample 20909233201 (SK-GW64-1031), two surrogate recoveries were above QC limits, however there were no target analytes present in the sample above the reporting limit so the data was not affected.

In the OLC02.1- CLP Volatile analysis of sample 20909233201 (SK-GW64-1031), this sample was diluted to bring internal standards within QC limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the OLM04.2 - CLP Pesticide analysis of sample 20909233222 (SK-GW59-1031), the surrogate recovery for Decachlorobiphenyl was slightly below the suggested QC limits on both columns. No corrective action was required.

In the OLM04.2 - CLP Pesticide analysis of sample 20909233208 (SK-GW7R-1031), the surrogate recovery for TCMX was below suggested QC limits. No corrective action was taken.

In the OLM04.2 - CLP Pesticide analysis of prep batch 420022, DDT and Endrin Ketone failed in the CCV files 2091014p/sv18b029 and sv18b030 on the confirmation column, however these compounds were not present in the associated samples so a confirmation was not needed. All compounds passed for the CCVs on the primary column.

In the OLM04.2 - CLP Pest/PCB analysis for prep batches 419066 and 418878, the MS/MSD exhibited recovery failures. These recoveries were within limits in the LCS and/or LCSD.

METALS

In the ILM04.1 - CLP Metals analysis for prep batch 418950, the MS and/or MSD recovery was outside the control limits for Arsenic and Thallium. The LCS recovery was within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. The Sample/Duplicate RPD for Aluminum is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Iron and Potassium are flagged as estimated on the serial dilution form due to the fact that the percent difference between original sample result and the serial

dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected.

In the ILM04.1 - CLP Metals analysis for prep batch 418951, the MS and/or MSD recovery was outside the control limits for Arsenic and Thallium. The LCS recovery was within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference. Manganese is flagged as estimated on the serial dilution form due to the fact that the percent difference between original sample result and the serial dilution result for the batch QC sample is greater than 10. A chemical or physical interference is suspected. These are several Dissolved elements that are greater than the Total results in several samples. This is attributed to separate aliquots of sample used.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

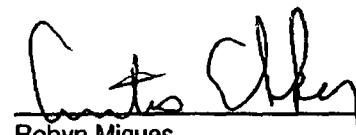
Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



Robyn Migues
Technical Director
GCAL REPORT 209092332

THIS REPORT CONTAINS 1099 PAGES.

Report Sample Summary

CAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
J909233201	SK-GW64-1031	Water	09/22/2009 14:45	09/23/2009 09:00
20909233202	SK-GW65-1031	Water	09/22/2009 14:30	09/23/2009 09:00
20909233203	VHBLK	Water		09/23/2009 09:00
20909233204	SK-GW64-1031 (DISS)	Water	09/22/2009 14:45	09/23/2009 09:00
20909233205	SK-GW63-1031	Water	09/23/2009 11:05	09/24/2009 09:00
20909233206	SK-FD-1031 (GW63)	Water	09/23/2009 11:05	09/24/2009 09:00
20909233207	SK-GW6R-1031	Water	09/23/2009 14:50	09/24/2009 09:00
20909233208	SK-GW7R-1031	Water	09/23/2009 15:05	09/24/2009 09:00
20909233209	SK-GW62A-1031	Water	09/23/2009 11:45	09/24/2009 09:00
20909233210	SK-FD-1031 (GW6R)	Water	09/23/2009 00:00	09/24/2009 09:00
20909233211	SK-TB-1031	Water	09/23/2009 00:00	09/24/2009 09:00
20909233212	SK-GW63-1031 (DISS)	Water	09/23/2009 11:05	09/24/2009 09:00
20909233213	SK-FD-1031 (GW63) DISS	Water	09/23/2009 11:05	09/24/2009 09:00
20909233214	SK-GW6R-1031 (DISS)	Water	09/23/2009 14:50	09/24/2009 09:00
20909233215	SK-GW7R-1031 (DISS)	Water	09/23/2009 15:05	09/24/2009 09:00
20909233216	SK-GW62A-1031 (DISS)	Water	09/23/2009 11:45	09/24/2009 09:00
20909233217	SK-FD-1031 (GW6R) DISS	Water	09/23/2009 00:00	09/24/2009 09:00
20909233218	SK-GW58-1031	Water	09/24/2009 10:40	09/25/2009 09:25
20909233219	SK-MS-1031 (GW58)	Water	09/24/2009 10:40	09/25/2009 09:25
20909233220	SK-MSD-1031 (GW58)	Water	09/24/2009 10:40	09/25/2009 09:25
20909233221	SK-DUP-1031 (GW58)	Water	09/24/2009 10:40	09/25/2009 09:25
20909233222	SK-GW59-1031	Water	09/24/2009 14:00	09/25/2009 09:25
20909233223	SK-GW61-1031	Water	09/24/2009 14:20	09/25/2009 09:25
1909233224	SK-GW60-1031	Water	09/24/2009 14:40	09/25/2009 09:25
J909233225	SK-TB-1031	Water	09/24/2009 00:00	09/25/2009 09:25
20909233226	SK-GW58-1031 (DISS)	Water	09/24/2009 10:40	09/25/2009 09:25
20909233227	SK-MS-1031 (GW58) DISS	Water	09/24/2009 10:40	09/25/2009 09:25
20909233228	SK-DUP-1031 (GW58) DISS	Water	09/24/2009 10:40	09/25/2009 09:25
20909233229	SK-GW59-1031 DISS	Water	09/24/2009 14:00	09/25/2009 09:25
20909233230	SK-GW61-1031 DISS	Water	09/24/2009 14:20	09/25/2009 09:25
20909233231	SK-GW60-1031 DISS	Water	09/24/2009 14:40	09/25/2009 09:25

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW64-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233201

Level: (low/med)

Lab File ID: 2090928/2461

% Moisture: not dec.

Date Collected: 09/22/09

Time: 1445

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09

Time: 1858

Soil Extract Volume:

(μ L)

Dilution Factor: 1

Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch:

Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
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71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethybenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW64-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233201

Level: (low/med)

Lab File ID: 2090928j2461

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1445

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1858

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW64-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water		Lab Sample ID: 20909233201
Sample wt/vol:		Units:	Lab File ID: 2090928/2461T
Level: (low/med)			Date Collected: 09/22/09 Time: 1445
% Moisture: not dec.			Date Received: 09/23/09
GC Column:		ID: (mm)	Date Analyzed: 09/28/09 Time: 1858
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:		(μL)	
Soil Aliquot Volume:		(μL)	

Number TICs Found: 5

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 75-45-6	Methane, chlorodifluoro-	1.899	.367	
2. 74-98-6	Unknown	1.974	.163	
3. 106-98-9	Unknown	2.105	.229	
4. 60-29-7	Ether	3.201	.493	
5. 108-20-3	Diisopropyl ether	5.11	1.02	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW65-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233202

Level: (low/med)

Lab File ID: 2090929/2488

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1430

GC Column:

ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1212

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW65-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233202

Level: (low/med)

Lab File ID: 2090929/2488

% Moisture: not dec.

Date Collected: 09/22/09 Time: 1430

GC Column: ID: (mm)

Date Received: 09/23/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1212

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT Q MDL RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW65-1031

Lab Name: GCAL	Contract:	
Lab Code: LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix: Water		Lab Sample ID: 20909233202
Sample wt/vol:	Units:	Lab File ID: 2090929/2488T
Level: (low/med)		Date Collected: 09/22/09 Time: 1430
% Moisture: not dec.		Date Received: 09/23/09
GC Column:	ID: (mm)	Date Analyzed: 09/29/09 Time: 1212
Instrument ID: MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:	(μL)	
Soil Aliquot Volume:	(μL)	

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 115-11-7	Unknown	2.094	.187	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW63-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233205

Level: (low/med)

Lab File ID: 2090928/2463

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1105

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1944

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
---------	----------	--------	---	-----	----

71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

JUN
 30·DEC·2009

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW63-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233205

Level: (low/med)

Lab File ID: 2090928/2463

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1105

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 1944

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT Q MDL RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW63-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233205	
Sample wt/vol:		Lab File ID: 209092842463T	
Level: (low/med)		Date Collected:	09/23/09 Time: 1105
% Moisture: not dec.		Date Received:	09/24/09
GC Column:	ID: (mm)	Date Analyzed:	09/28/09 Time: 1944
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 75-28-5	Unknown	1.974	.253	
2. 2769-64-4	Unknown	2.105	.287	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-FD-1031 (GW63)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233206

Level: (low/med)

Lab File ID: 2090928/J2464

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1105

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2007

Soil Extract Volume:

(µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
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71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-FD-1031 (GW63)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233206

Level: (low/med)

Lab File ID: 2090928/2464

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1105

GC Column: ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2007

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT Q MDL RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-FD-1031 (GW63)

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water		Lab Sample ID: 20909233206
Sample wt/vol:		Units:	Lab File ID: 2090928/2464T
Level: (low/med)			Date Collected: 09/23/09 Time: 1105
% Moisture: not dec.			Date Received: 09/24/09
GC Column:		ID: (mm)	Date Analyzed: 09/28/09 Time: 2007
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:		(μL)	
Soil Aliquot Volume:		(μL)	

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 75-28-5	Unknown	1.974	.189	
2. 10552-94-0	Unknown	2.105	.318	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW6R-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233207

Level: (low/med)

Lab File ID: 2090928/2465

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1450

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2031

Soil Extract Volume:

(µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
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71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW6R-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233207

Level: (low/med)

Lab File ID: 2090928/2465

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1450

GC Column: ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2031

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT Q MDL RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW6R-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233207	
Sample wt/vol:	Units:	Lab File ID: 2090928/2465T	
Level: (low/med)		Date Collected:	09/23/09 Time: 1450
% Moisture: not dec.		Date Received:	09/24/09
GC Column:	ID: (mm)	Date Analyzed:	09/28/09 Time: 2031
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 7446-09-5	Sulfur dioxide	2.039	.477	
2. 7446-09-5	Unknown	2.105	.325	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW7R-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233208

Level: (low/med)

Lab File ID: 2090928/2466

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1505

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2054

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW7R-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233208

Level: (low/med)

Lab File ID: 2090928/2466

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1505

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2054

Soil Extract Volume:

(μ L)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW7R-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233208	
Sample wt/vol:	Units:	Lab File ID: 2090928/2466T	
Level: (low/med)		Date Collected:	09/23/09 Time: 1505
% Moisture:	not dec.	Date Received:	09/24/09
GC Column:	ID: (mm)	Date Analyzed:	09/28/09 Time: 2054
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 7446-09-5	Sulfur dioxide	2.05	.386	
2. 7446-09-5	Unknown	2.105	.229	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW62A-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233209

Level: (low/med)

Lab File ID: 2090928/2467

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1145

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2117

Soil Extract Volume:

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(µL) Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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30.DET.2009

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW62A-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233209

Level: (low/med)

Lab File ID: 2090928/2467

% Moisture: not dec.

Date Collected: 09/23/09 Time: 1145

GC Column: ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/26/09 Time: 2117

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW62A-1031

Lab Name: GCAL	Contract:	
Lab Code: LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix: Water		Lab Sample ID: 20909233209
Sample wt/vol:	Units:	Lab File ID: 2090928/2467T
Level: (low/med)		Date Collected: 09/23/09 Time: 1145
% Moisture: not dec.		Date Received: 09/24/09
GC Column:	ID: (mm)	Date Analyzed: 09/28/09 Time: 2117
Instrument ID: MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:	(μ L)	
Soil Aliquot Volume:	(μ L)	

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.105	.154	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-FD-1031 (GW6R)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233210

Level: (low/med)

Lab File ID: 2090928/2468

% Moisture: not dec.

Date Collected: 09/23/09

Time: 0000

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09

Time: 2140

Soil Extract Volume:

(μ L)

Dilution Factor: 1

Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch:

Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-FD-1031 (GW6R)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233210

Level: (low/med)

Lab File ID: 2090928/2468

% Moisture: not dec.

Date Collected: 09/23/09 Time: 0000

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/28/09 Time: 2140

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419059

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT

Q

MDL

RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-FD-1031 (GW6R)

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water		Lab Sample ID: 20909233210
Sample wt/vol:		Units:	Lab File ID: 2090928j2468T
Level: (low/med)			Date Collected: 09/23/09 Time: 0000
% Moisture: not dec.			Date Received: 09/24/09
GC Column:		ID: (mm)	Date Analyzed: 09/28/09 Time: 2140
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:		(μL)	
Soil Aliquot Volume:		(μL)	

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 7446-09-5	Sulfur dioxide	2.029	1.85	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-TB-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233211

Level: (low/med)

Lab File ID: 2090929/J2491

% Moisture: not dec.

Date Collected: 09/23/09 Time: 0000

GC Column:

ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1322

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-TB-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233211

Level: (low/med)

Lab File ID: 2090929/2491

% Moisture: not dec.

Date Collected: 09/23/09 Time: 0000

GC Column: ID: (mm)

Date Received: 09/24/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1322

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-TB-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233211	
Sample wt/vol:	Units:	Lab File ID: 2090929j2491T	
Level: (low/med)		Date Collected:	09/23/09 Time: 0000
% Moisture: not dec.		Date Received:	09/24/09
GC Column:	ID: (mm)	Date Analyzed:	09/29/09 Time: 1322
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μ L)		
Soil Aliquot Volume:	(μ L)		

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.104	.113	
2. 0-00-0	Unknown	10.758	.155	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW58-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233218

Level: (low/med)

Lab File ID: 2090929/j2482

% Moisture: not dec.

Date Collected: 09/24/09

Time: 1040

GC Column:

ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09

Time: 0928

Soil Extract Volume:

(μ L)

Dilution Factor: 1

Analyst: WAS

Soil Aliquot Volume:

(μ L)

Prep Batch:

Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW58-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233218

Level: (low/med)

Lab File ID: 2090929/2482

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1040

GC Column: ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 0928

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT

Q

MDL

RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW58-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233218	
Sample wt/vol:		Lab File ID: 2090929/2482T	
Level: (low/med)		Date Collected:	09/24/09 Time: 1040
% Moisture: not dec.		Date Received:	09/25/09
GC Column:		Date Analyzed:	09/29/09 Time: 0928
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μ L)		
Soil Aliquot Volume:	(μ L)		

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 115-11-7	1-Propene, 2-methyl-	2.105	.229	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW59-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) ml

Lab Sample ID: 20909233222

Level: (low/med)

Lab File ID: 2090929/J2486

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1400

GC Column:

ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1126

Soil Extract Volume:

(µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW59-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233222

Level: (low/med)

Lab File ID: 2090929/2486

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1400

GC Column: ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1126

Soil Extract Volume: (μL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (μL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT

Q

MDL

RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW59-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233222	
Sample wt/vol:	Units:	Lab File ID: 2090929f/2486T	
Level: (low/med)		Date Collected:	09/24/09 Time: 1400
% Moisture:	not dec.	Date Received:	09/25/09
GC Column:	ID: (mm)	Date Analyzed:	09/29/09 Time: 1126
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 115-11-7	1-Propene, 2-methyl-	2.094	.189	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW61-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233223

Level: (low/med)

Lab File ID: 2090929/j2487

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1420

GC Column:

ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1149

Soil Extract Volume:

(μ L) Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(μ L) Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
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71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW61-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233223

Level: (low/med)

Lab File ID: 2090929/2487

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1420

GC Column: ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1149

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO. COMPOUND

RESULT

Q

MDL

RL

75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW61-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water		Lab Sample ID: 20909233223
Sample wt/vol:		Units:	Lab File ID: 2090929/J2487T
Level: (low/med)			Date Collected: 09/24/09 Time: 1420
% Moisture:	not dec.		Date Received: 09/25/09
GC Column:	ID: (mm)		Date Analyzed: 09/29/09 Time: 1149
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 7446-09-5	Sulfur dioxide	2.05	.338	
2. 594-82-1	Butane, 2,2,3,3-tetramethyl-	6.574	1.33	
3. 123-91-1	1,4-Dioxane	7.995	.281	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW60-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233224

Level: (low/med)

Lab File ID: 2090929/2489

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1440

GC Column:

ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1235

Soil Extract Volume:

(µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume:

(µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-GW60-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233224

Level: (low/med)

Lab File ID: 2090929/2489

% Moisture: not dec.

Date Collected: 09/24/09 Time: 1440

GC Column: ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1235

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-GW60-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water	Lab Sample ID: 20909233224	
Sample wt/vol:	Units:	Lab File ID: 2090929/2489T	
Level: (low/med)		Date Collected:	09/24/09 Time: 1440
% Moisture:	not dec.	Date Received:	09/25/09
GC Column:	ID: (mm)	Date Analyzed:	09/29/09 Time: 1235
Instrument ID:	MSV5	Dilution Factor:	1 Analyst: WAS
Soil Extract Volume:	(μL)		
Soil Aliquot Volume:	(μL)		

Number TICs Found: 1

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.094	.164	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-TB-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233225

Level: (low/med)

Lab File ID: 2090929/2492

% Moisture: not dec.

Date Collected: 09/24/09 Time: 0000

GC Column: ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1347

Soil Extract Volume: (μL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (μL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	0.010	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	0.010	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	0.010	1.0
75-34-3	1,1-Dichloroethane	1.0	U	0.010	1.0
75-35-4	1,1-Dichloroethene	1.0	U	0.010	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	0.010	1.0
106-93-4	1,2-Dibromoethane	1.0	U	0.010	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	0.010	1.0
107-06-2	1,2-Dichloroethane	1.0	U	0.010	1.0
540-59-0	1,2-Dichloroethene	1.0	U	0.010	1.0
78-87-5	1,2-Dichloropropane	1.0	U	0.010	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	0.010	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	0.010	1.0
78-93-3	2-Butanone	5.0	U	0.010	5.0
591-78-6	2-Hexanone	5.0	U	0.010	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	0.010	5.0
67-64-1	Acetone	5.0	U	0.010	5.0
71-43-2	Benzene	1.0	U	0.010	1.0
75-27-4	Bromodichloromethane	1.0	U	0.010	1.0
75-25-2	Bromoform	1.0	U	0.010	1.0
74-83-9	Bromomethane	1.0	U	0.010	1.0
75-15-0	Carbon disulfide	1.0	U	0.010	1.0
56-23-5	Carbon tetrachloride	1.0	U	0.010	1.0
108-90-7	Chlorobenzene	1.0	U	0.010	1.0
75-00-3	Chloroethane	1.0	U	0.010	1.0
67-66-3	Chloroform	1.0	U	0.010	1.0
74-87-3	Chloromethane	1.0	U	0.010	1.0
124-48-1	Dibromochloromethane	1.0	U	0.010	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	0.010	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	0.010	1.0
100-41-4	Ethylbenzene	1.0	U	0.010	1.0

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30. DEC. 2009

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SK-TB-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20909233225

Level: (low/med)

Lab File ID: 2090929/2492

% Moisture: not dec.

Date Collected: 09/24/09 Time: 0000

GC Column: ID: (mm)

Date Received: 09/25/09

Instrument ID: MSV5

Date Analyzed: 09/29/09 Time: 1347

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: WAS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 419086

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-09-2	Methylene chloride	2.0	U	0.010	2.0
100-42-5	Styrene	1.0	U	0.010	1.0
127-18-4	Tetrachloroethene	1.0	U	0.010	1.0
108-88-3	Toluene	1.0	U	0.010	1.0
79-01-6	Trichloroethene	1.0	U	0.010	1.0
75-01-4	Vinyl chloride	1.0	U	0.010	1.0
1330-20-7	Xylene (total)	1.0	U	0.010	1.0

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SK-TB-1031

Lab Name:	GCAL	Contract:	
Lab Code:	LA024	Case No.:	SAS No.: SDG No.: 209092332
Matrix:	Water		Lab Sample ID: 20909233225
Sample wt/vol:		Units:	Lab File ID: 2090929/2492T
Level:	(low/med)		Date Collected: 09/24/09 Time: 0000
% Moisture:	not dec.		Date Received: 09/25/09
GC Column:		ID: (mm)	Date Analyzed: 09/29/09 Time: 1347
Instrument ID:	MSV5		Dilution Factor: 1 Analyst: WAS
Soil Extract Volume:		(μ L)	
Soil Aliquot Volume:		(μ L)	

Number TICs Found: 2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 115-11-7	1-Propene, 2-methyl-	2.094	.138	
2. 556-67-2	Cyclotetrasiloxane, octamethyl	10.758	.196	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW64-1031
Lab Code:	LA024	Case No.:	Contract:
SAS No.:	SDG No.:	209092332	Lab File ID: 2090930/d6466
Matrix:	Water		Lab Sample ID: 20909233201
Sample wt/vol:	990	Units: mL	Date Collected: 09/22/09 Time: 1445
Level: (low/med)	LOW		Date Received: 09/23/09
% Moisture:	decanted: (Y/N)		Date Extracted: 09/24/09
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Analyzed: 09/30/09 Time: 1618
Concentrated Extract Volume:	1000	(μL)	Dilution Factor: 1 Analyst: KCB
Injection Volume:	1.0	(μL)	Prep Method: OLM4.2 SVOA
GPC Cleanup: (Y/N)	N	pH:	Analytical Method: OLMO 4.2
CONCENTRATION UNITS: ug/L			Instrument ID: MSSV4
			Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10
117-81-7	bis(2-ethylhexyl)phthalate	3/10	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10

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 30. DEC. 2009

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW64-1031
Lab Code: LA024	Contract:
SAS No.: SDG No.: 209092332	Lab File ID: 2090930/d6466
Matrix: Water	Lab Sample ID: 20909233201
Sample wt/vol: 990	Date Collected: 09/22/09 Time: 1445
Level: (low/med) LOW	Date Received: 09/23/09
% Moisture: decanted: (Y/N)	Date Extracted: 09/24/09
GC Column: DB-5MS-30M ID: .25 (mm)	Date Analyzed: 09/30/09 Time: 1618
Concentrated Extract Volume: 1000 (µL)	Dilution Factor: 1 Analyst: KCB
Injection Volume: 1.0 (µL)	Prep Method: OLM4.2 SVOA
GPC Cleanup: (Y/N) N pH:	Analytical Method: OLMO 4.2

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-GW64-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6466
 Matrix: Water Lab Sample ID: 20909233201
 Sample wt/vol: 990 Units: mL Date Collected: 09/22/09 Time: 1445
 Level: (low/med) Low Date Received: 09/23/09
 % Moisture: not dec. Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1618
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM 4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: SW-846 8270C OLMD 4.2
 Instrument ID: MSSV4

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 123-91-1	1,4-Dioxane	.435	8.6	
2.	Unknown	1.313	5.19	
3. 141-79-7	3-Penten-2-one, 4-methyl-	.681	16.3	
4.	Unknown	.73	13	
5.	Unknown	.783	10.2	
6.	Unknown	.815	5.68	
7.	Unknown	1.12	4.89	
8.	Unknown	1.152	14.5	
9.	Unknown	1.254	11	
10.	Unknown	1.286	16.2	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW64-1031
Lab Code: LA024	Case No.:
SAS No.:	SDG No.: 209092332
Matrix: Water	Lab Sample ID: 20909233201
Sample wt/vol: 990	Units: mL
Level: (low/med) LOW	Date Collected: 09/22/09 Time: 1445
% Moisture:	Date Received: 09/23/09
GC Column: DB-5MS-30M	Date Extracted: 09/24/09
Concentrated Extract Volume: 1000	Date Analyzed: 10/01/09 Time: 1457
Injection Volume: 1.0	Dilution Factor: 5 Analyst: KCB
GPC Cleanup: (Y/N) N	Prep Method: OLM4.2 SVOA
CONCENTRATION UNITS: ug/L	Analytical Method: OLMO 4.2
	Instrument ID: MSSV4
	Prep Batch: 418879 Analytical Batch: 419340

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
50-32-8	Benzo(a)pyrene	51	U	0.05	51
205-99-2	Benzo(b)fluoranthene	51	U	0.05	51
191-24-2	Benzo(g,h,i)perylene	51	U	0.05	51
207-08-9	Benzo(k)fluoranthene	51	U	0.05	51
117-84-0	Di-n-octylphthalate	51	U	0.05	51
53-70-3	Dibenz(a,h)anthracene	51	U	0.05	51
193-39-5	Indeno(1,2,3-cd)pyrene	51	U	0.05	51

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW63-1031
Lab Code: LA024	Case No.:
SAS No.:	SDG No.: 209092332
Matrix: Water	Contract:
Sample wt/vol: 990	Units: mL
Level: (low/med) LOW	Lab File ID: 2090930/d6467
% Moisture:	Lab Sample ID: 20909233205
GC Column: DB-5MS-30M	Date Collected: 09/23/09 Time: 1105
Concentrated Extract Volume: 1000	Date Received: 09/24/09
Injection Volume: 1.0	Date Extracted: 09/24/09
GPC Cleanup: (Y/N) N	Date Analyzed: 09/30/09 Time: 1634
CONCENTRATION UNITS: ug/L	
Dilution Factor: 1	Analyst: KCB
Prep Method: OLM4.2 SVOA	Analytical Method: OLMO 4.2
Instrument ID: MSSV4	
Prep Batch: 418879	Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW63-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6467
 Matrix: Water Lab Sample ID: 20909233205
 Sample wt/vol: 990 Units: mL Date Collected: 09/23/09 Time: 1105
 Level: (low/med) LOW Date Received: 09/24/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1634
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	15	B	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW63-1031				
Lab Code: LA024	Contract:				
SAS No.:	Lab File ID: 2090930/d6467				
Matrix: Water	Lab Sample ID: 20909233205				
Sample wt/vol: 990	Date Collected: 09/23/09 Time: 1105				
Level: (low/med) LOW	Date Received: 09/24/09				
% Moisture: decanted: (Y/N)	Date Extracted: 09/24/09				
GC Column: DB-5MS-30M	Date Analyzed: 09/30/09 Time: 1634				
Concentrated Extract Volume: 1000	Dilution Factor: 1 Analyst: KCB				
Injection Volume: 1.0	Prep Method: OLM4.2 SVOA				
GPC Cleanup: (Y/N) N	Analytical Method: OLMO 4.2				
CONCENTRATION UNITS: ug/L	Instrument ID: MSSV4				
CAS NO. COMPOUND		RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-GW63-1031
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092332 Contract:
 Matrix: Water Lab File ID: 2090930/d6467
 Sample wt/vol: 990 Units: mL Lab Sample ID: 20909233205
 Level: (low/med) Date Collected: 09/23/09 Time: 1105
 % Moisture: not dec. Date Received: 09/24/09
 GC Column: DB-5MS-30M Date Extracted: 09/24/09
 Concentrated Extract Volume: 1000 ID: .25 Date Analyzed: 09/30/09 Time: 1634
 Injection Volume: 1.0 (µL) Dilution Factor: 1 Analyst: KCB
 GPC Cleanup: (Y/N) N pH: Prep Method: OLM4.2 SYOA
 Analytical Method: SW-846-8270C Instrument ID: MSSV4 OLMD 4.2

Number TICs Found: 10

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 141-79-7	3-Penten-2-one, 4-methyl-	.692	14.4	
2. 115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxyli	4.645	5.44	
3.	Unknown	.74	30.3	
4.	Unknown	.788	10.7	
5.	Unknown	.837	26.5	
6.	Unknown	.858	10.4	
7.	Unknown	.944	11.3	
8.	Unknown	1.168	8.68	
9.	Unknown	1.291	18.5	
10.	Unknown	1.307	16.4	

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-FD-1031 (GW63)	
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:	SDG No.: 209092332		Lab File ID:	2090930/d6452	
Matrix	Water		Lab Sample ID:	20909233206	
Sample wt/vol:	990	Units: mL	Date Collected:	09/23/09	Time: 1105
Level: (low/med)	LOW		Date Received:	09/24/09	
% Moisture:	decanted: (Y/N)		Date Extracted:	09/24/09	
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Analyzed:	09/30/09	Time: 1147
Concentrated Extract Volume:	1000	(μ L)	Dilution Factor:	1	Analyst: KCB
Injection Volume:	1.0	(μ L)	Prep Method:	OLM4.2 SVOA	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
CONCENTRATION UNITS: ug/L					
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-FD-1031 (GW63)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6452
 Matrix: Water Lab Sample ID: 20909233206
 Sample wt/vol: 990 Units: mL Date Collected: 09/23/09 Time: 1105
 Level: (low/med) LOW Date Received: 09/24/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1147
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10 ✓	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-FD-1031 (GW63)		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:	SDG No.: 209092332			Lab File ID:	2090930/d6452		
Matrix:	Water			Lab Sample ID:	20909233206		
Sample wt/vol:	990	Units:	mL	Date Collected:	09/23/09	Time:	1105
Level: (low/med)	LOW			Date Received:	09/24/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/24/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1147
Concentrated Extract Volume:	1000	(μ L)	Dilution Factor:	1	Analyst:	KCB	
Injection Volume:	1.0	(μ L)	Prep Method:	OLM4.2 SVOA			
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2			
CONCENTRATION UNITS: ug/L				Instrument ID:	MSSV4		
				Prep Batch:	418879	Analytical Batch:	419087
CAS NO.	COMPOUND	RESULT	Q	MDL	RL		
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10		
95-48-7	o-Cresol	10	U	0.01	10		

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL	Sample ID:	SK-FD-1031 (GW63)
Lab Code:	LA024	Case No.:	
SAS No.:		SDG No.:	209092332
Matrix:	Water	Contract:	
Sample wt/vol:	990	Units:	ML
Level: (low/med)		LDW	
% Moisture:	not dec.	Date Collected:	09/23/09 Time: 1105
GC Column:	DB-5MS-30M	ID:	.25 (mm)
Concentrated Extract Volume:	1000	(μ L)	
Injection Volume:	1.0	(μ L)	
GPC Cleanup: (Y/N)	N	pH:	
Number TICs Found : 10		Date Received:	09/24/09
CONCENTRATION UNITS: ug/L		Date Extracted:	09/24/09
Prep Method: OLM 4.2 SVOA		Date Analyzed:	09/30/09 Time: 1147
Analytical Method: SW-846 8270C OLM 4.2		Dilution Factor:	1 Analyst: KCB
		Instrument ID:	MSSV4

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	Unknown	.735	5.25	
2.	Unknown	2.623	9.14	
3.	Unknown	.788	11.6	
4.	Unknown	.853	25.7	
5.	Unknown	1.163	8.33	
6.	Unknown	1.286	19.7	
7.	Unknown	1.302	15.6	
8.	Unknown	2.505	10	
9.	Unknown	2.537	6.96	
10.	Unknown	2.602	15.5	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-GW6R-1031		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:	SDG No.: 209092332			Lab File ID:	2090930/d6453		
Matrix:	Water			Lab Sample ID:	20909233207		
Sample wt/vol:	960	Units:	mL	Date Collected:	09/23/09	Time:	1450
Level: (low/med)	LOW			Date Received:	09/24/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/24/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1202
Concentrated Extract Volume:	1000	(μ L)		Dilution Factor:	1	Analyst:	KCB
Injection Volume:	1.0	(μ L)		Prep Method:	OLM4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS: ug/L							
				Instrument ID:	MSSV4		
				Prep Batch:	418879	Analytical Batch:	419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	26	U	0.01	26
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
608-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	26	U	0.01	26
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	26	U	0.01	26
534-52-1	2-Methyl-4,6-dinitrophenol	26	U	0.01	26
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW6R-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6453
 Matrix: Water Lab Sample ID: 20909233207
 Sample wt/vol: 960 Units: mL Date Collected: 09/23/09 Time: 1450
 Level: (low/med) LOW Date Received: 09/24/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1202
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	0.9 ¹⁰	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	26	U	0.01	26
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	26	U	0.01	26
87-86-5	Pentachlorophenol	26	U	0.01	26
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW6R-1031			
Lab Code:	LA024	Contract:				
SAS No.:	SDG No.:	209092332	Lab File ID: 2090930/d6453			
Matrix:	Water	Lab Sample ID:	20909233207			
Sample wt/vol:	960	Units:	ml			
Date Collected:	09/23/09	Time:	1450			
Level: (low/med)	LOW	Date Received:	09/24/09			
% Moisture:	decanted: (Y/N)	Date Extracted:	09/24/09			
GC Column:	DB-5MS-30M	ID:	.25 (mm)			
Concentrated Extract Volume:	1000	(μ L)	Date Analyzed:	09/30/09	Time:	1202
Injection Volume:	1.0	(μ L)	Dilution Factor:	1	Analyst:	KCB
GPC Cleanup: (Y/N)	N	pH:	Prep Method:	OLM4.2 SVOA		
CONCENTRATION UNITS:	ug/L		Analytical Method:	OLMO 4.2		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10	
95-48-7	o-Cresol	10	U	0.01	10	

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL	Sample ID:	SK-GW6R-1031
Lab Code:	LA024	Case No.:	
SAS No.:		SDG No.:	209092332
Matrix:	Water	Contract:	
Sample wt/vol:	960	Units:	ML
Level: (low/med)	LOW	Lab File ID:	2090930/d6453
% Moisture:	not dec.	Lab Sample ID:	20909233207
GC Column:	DB-5MS-30M	ID:	.25 (mm)
Concentrated Extract Volume:	1000	(μ L)	
Injection Volume:	1.0	(μ L)	
GPC Cleanup: (Y/N)	N	pH:	
		Date Collected:	09/23/09 Time: 1450
		Date Received:	09/24/09
		Date Extracted:	09/24/09
		Date Analyzed:	09/30/09 Time: 1202
		Dilution Factor:	1 Analyst: KCB
		Prep Method:	OLM 4.2 SVOA
		Analytical Method:	SW-846-8270G OLM 4.2
		Instrument ID:	MSSV4

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	Unknown	.724	4.56	
2.	10544-50-0 Sulfur, mol. (S8)	4.816	14.5	
3.	Unknown	.778	12	
4.	Unknown	.81	3.41	
5.	Unknown	.831	3.97	
6.	Unknown	1.163	12	
7.	Unknown	1.211	3.67	
8.	Unknown	1.286	18.8	
9.	Unknown	1.302	17.7	
10.	115-28-6 Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxyli	4.64	20.6	

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1B
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW7R-1031	
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:	SDG No.: 209092332		Lab File ID:	2090930/d6454	
Matrix:	Water		Lab Sample ID:	20909233208	
Sample wt/vol:	990	Units: mL	Date Collected:	09/23/09	Time: 1505
Level: (low/med)	LOW		Date Received:	09/24/09	
% Moisture:	decanted: (Y/N)		Date Extracted:	09/24/09	
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Analyzed:	09/30/09	Time: 1218
Concentrated Extract Volume:	1000	(μ L)	Dilution Factor:	1	Analyst: KCB
Injection Volume:	1.0	(μ L)	Prep Method:	OLM4.2 SVOA	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
CONCENTRATION UNITS: ug/L					
Prep Batch:	418879		Analytical Batch:	419087	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Choronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW7R-1031
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6454
 Matrix: Water Lab Sample ID: 20909233208
 Sample wt/vol: 990 Units: mL Date Collected: 09/23/09 Time: 1505
 Level: (low/med) LOW Date Received: 09/24/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1218
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	3/10	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW7R-1031				
Lab Code: LA024	Contract:				
SAS No.: SDG No.: 209092332	Lab File ID: 2090930/d6454				
Matrix: Water	Lab Sample ID: 20909233208				
Sample wt/vol: 990	Units: mL	Date Collected: 09/23/09	Time: 1505		
Level: (low/med) LOW		Date Received: 09/24/09			
% Moisture:	decanted: (Y/N)	Date Extracted: 09/24/09			
GC Column: DB-5MS-30M	ID: .25 (mm)	Date Analyzed: 09/30/09	Time: 1218		
Concentrated Extract Volume: 1000	(μL)	Dilution Factor: 1	Analyst: KCB		
Injection Volume: 1.0	(μL)	Prep Method: OLM4.2 SVOA			
GPC Cleanup: (Y/N) N	pH:	Analytical Method: OLMO 4.2			
CONCENTRATION UNITS: ug/L					
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-GW7R-1031
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6454
 Matrix: Water Lab Sample ID: 20909233208
 Sample wt/vol: 990 Units: mL Date Collected: 09/23/09 Time: 1505
 Level: (low/med) LOW Date Received: 09/24/09
 % Moisture: not dec.
 GC Column: DB-5MS-30M ID: .25 (mm)
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: SW-846-8270C OLM0 4.2
 Instrument ID: MSSV4

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	Unknown	.725	4.61	
2.	Unknown	4.945	5.28	
3.	Unknown	.778	12.2	
4.	Unknown	1.163	11.7	
5.	Unknown	1.286	19.8	
6.	Unknown	1.302	18.2	
7.	Unknown	3.88	5.84	
8.	Unknown	4.479	4.18	
9.	Unknown	4.533	5.33	
10.	10544-50-0 Sulfur, mol. (S8)	4.811	8.28	

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW62A-1031
Lab Code: LA024	Case No.:
SAS No.:	SDG No.: 209092332
Matrix: Water	Contract:
Sample wt/vol: 990	Units: mL
Level: (low/med) LOW	Lab File ID: 2090930/d6455
% Moisture: decanted: (Y/N)	Lab Sample ID: 20909233209
GC Column: DB-5MS-30M	Date Collected: 09/23/09 Time: 1145
ID: .25 (mm)	Date Received: 09/24/09
Concentrated Extract Volume: 1000 (µL)	Date Extracted: 09/24/09
Injection Volume: 1.0 (µL)	Date Analyzed: 09/30/09 Time: 1233
GPC Cleanup: (Y/N) N pH:	Dilution Factor: 1 Analyst: KCB
CONCENTRATION UNITS: ug/L	
Prep Method: OLM4.2 SVOA	Analytical Method: OLMO 4.2
Instrument ID: MSSV4	Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	25	U	0.01	25
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	25	U	0.01	25
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	25	U	0.01	25
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW62A-1031	
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:	SDG No.: 209092332		Lab File ID:	2090930/d6455	
Matrix:	Water		Lab Sample ID:	20909233209	
Sample wt/vol:	990	Units: mL	Date Collected:	09/23/09	Time: 1145
Level: (low/med)	LOW		Date Received:	09/24/09	
% Moisture:	decanted: (Y/N)		Date Extracted:	09/24/09	
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Analyzed:	09/30/09	Time: 1233
Concentrated Extract Volume:	1000	(μ L)	Dilution Factor:	1	Analyst: KCB
Injection Volume:	1.0	(μ L)	Prep Method:	OLM4.2 SVOA	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
CONCENTRATION UNITS: ug/L					
Prep Batch:	418879		Analytical Batch:	419087	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	14	B	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW62A-1031		
Lab Code:	LA024	Case No.:			
SAS No.:		SDG No.:	209092332		
Matrix:	Water	Contract:			
Sample wt/vol:	990	Units:	mL		
Level: (low/med)	LOW	Lab File ID:	2080930/d6455		
% Moisture:		Lab Sample ID:	20909233209		
GC Column:	DB-5MS-30M	ID:	.25 (mm)		
Concentrated Extract Volume:	1000	(μ L)			
Injection Volume:	1.0	(μ L)			
GPC Cleanup: (Y/N)	N	pH:			
CONCENTRATION UNITS: ug/L					
CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL		Sample ID:	SK-GW62A-1031	
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:	SDG No.: 209092332		Lab File ID:	2090930/d6455	
Matrix:	Water		Lab Sample ID:	20909233209	
Sample wt/vol:	990	Units:	ML	Date Collected:	09/23/09
Level: (low/med)	LOW		Date Received:	09/24/09	
% Moisture:	not dec.		Date Extracted:	09/24/09	
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09
Concentrated Extract Volume:	1000 (µL)		Dilution Factor:	1 Analyst: KCB	
Injection Volume:	1.0 (µL)		Prep Method:	OLM 4.2 SYOA	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	SW-846 8276C OLM 4.2	
Instrument ID: MSSV4					

Number TICs Found : 10

CONCENTRATION UNITS: ug/L

CAS NO. **COMPOUND**

1.	Unknown	.724	4.08	
2.	10544-50-0 Sulfur, mol. (S8)	4.816	4.02	
3.	Unknown	.778	12.3	
4.	Unknown	.831	3.56	
5.	Unknown	1.163	9.75	
6.	Unknown	1.206	3.17	
7.	Unknown	1.286	18.5	
8.	Unknown	1.302	16.6	
9.	Unknown	3.875	3.91	
10.	Unknown	4.645	13.4	

30. DEC. 2009

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-FD-1031 (GW6R)		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:	SDG No.: 209092332			Lab File ID:	2090930/d6456		
Matrix:	Water			Lab Sample ID:	20909233210		
Sample wt/vol:	990	Units:	mL	Date Collected:	09/23/09	Time:	0000
Level: (low/med)	LOW			Date Received:	09/24/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/24/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1248
Concentrated Extract Volume:	1000	(μ L)		Dilution Factor:	1	Analyst:	KCB
Injection Volume:	1.0	(μ L)		Prep Method:	OLM4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS: ug/L				Instrument ID:	MSSV4		
				Prep Batch:	418879	Analytical Batch:	419087
CAS NO.	COMPOUND	RESULT	Q	MDL	RL		
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10		
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10		
120-83-2	2,4-Dichlorophenol	10	U	0.01	10		
51-28-5	2,4-Dinitrophenol	25	U	0.01	25		
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10		
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10		
91-58-7	2-Chloronaphthalene	10	U	0.01	10		
95-57-8	2-Chlorophenol	10	U	0.01	10		
91-57-6	2-Methylnaphthalene	10	U	0.01	10		
88-74-4	2-Nitroaniline	25	U	0.01	25		
88-75-5	2-Nitrophenol	10	U	0.01	10		
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10		
99-09-2	3-Nitroaniline	25	U	0.01	25		
534-52-1	2-Methyl-4,6-dinitrophenol	25	U	0.01	25		
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10		
106-47-8	4-Chloroaniline	10	U	0.01	10		
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10		
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10		
83-32-9	Acenaphthene	10	U	0.01	10		
208-96-8	Acenaphthylene	10	U	0.01	10		
120-12-7	Anthracene	10	U	0.01	10		
56-55-3	Benzo(a)anthracene	10	U	0.01	10		
50-32-8	Benzo(a)pyrene	10	U	0.01	10		
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10		
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10		
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10		
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10		
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10		
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10		

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-FD-1031 (GW6R)
 Lab Code: LA024 Case No.: Contract:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6456
 Matrix: Water Lab Sample ID: 20909233210
 Sample wt/vol: 990 Units: mL Date Collected: 09/23/09 Time: 0000
 Level: (low/med) LOW Date Received: 09/24/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/24/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1248
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 418879 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10 ✓	JB	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	25	U	0.01	25
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	25	U	0.01	25
87-86-5	Pentachlorophenol	25	U	0.01	25
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-FD-1031 (GW6R)				
Lab Code: LA024	Case No.:				
SAS No.:	SDG No.: 209092332				
Matrix: Water	Contract:				
Sample wt/vol: 990	Units: mL				
Level: (low/med) LOW	Lab File ID: 2090930/d6456				
% Moisture: decanted: (Y/N)	Lab Sample ID: 20909233210				
GC Column: DB-5MS-30M	ID: .25 (mm)				
Concentrated Extract Volume: 1000	(μ L)				
Injection Volume: 1.0	(μ L)				
GPC Cleanup: (Y/N) N	pH:				
CONCENTRATION UNITS: ug/L					
CAS NO. COMPOUND		RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL	Sample ID:	SK-FD-1031 (GW6R)
Lab Code:	LA024	Case No.:	
SAS No.:		SDG No.:	209092332
Matrix:	Water	Contract:	
Sample wt/vol:	990	Units:	ML
Level: (low/med)	LOW	Date Collected:	09/23/09 Time: 0000
% Moisture:	not dec.	Date Received:	09/24/09
GC Column:	DB-5MS-30M	ID:	.25 (mm)
Concentrated Extract Volume:	1000	(μ L)	Dilution Factor: 1 Analyst: KCB
Injection Volume:	1.0	(μ L)	Prep Method: DLM4.2.SV0A
GPC Cleanup: (Y/N)	N	pH:	Analytical Method: SW-846 8270C DLM4.2
Instrument ID: MSSV4			

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	Unknown	.724	4.65	
2. 10544-50-0	Sulfur, mol. (S8)	4.816	16.6	
3.	Unknown	.778	10.8	
4.	Unknown	.81	3.32	
5.	Unknown	.831	3.1	
6.	Unknown	1.115	3.81	
7.	Unknown	1.163	10.6	
8.	Unknown	1.286	19.5	
9.	Unknown	1.302	10.7	
10. 115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxyli	4.645	45.9	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW58-1031
Lab Code: LA024	Case No.:
SAS No.:	SDG No.: 209092332
Matrix: Water	Contract:
Sample wt/vol: 980	Units: mL
Level: (low/med) LOW	Date Collected: 09/24/09 Time: 1040
% Moisture: decanted: (Y/N)	Date Received: 09/25/09
GC Column: DB-5MS-30M	Date Extracted: 09/28/09
Concentrated Extract Volume: 1000	Date Analyzed: 09/30/09 Time: 1354
Injection Volume: 1.0	Dilution Factor: 1 Analyst: KCB
GPC Cleanup: (Y/N) N	Prep Method: OLM4.2 SVOA
CONCENTRATION UNITS: ug/L	Analytical Method: OLMO 4.2
Instrument ID: MSSV4	
Prep Batch: 419056 Analytical Batch: 419087	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	26	U	0.01	26
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	26	U	0.01	26
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	26	U	0.01	26
534-52-1	2-Methyl-4,6-dinitrophenol	26	U	0.01	26
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: SK-GW58-1031
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092332 Lab File ID: 2090930/d6458
 Matrix: Water Lab Sample ID: 20909233218
 Sample wt/vol: 980 Units: mL Date Collected: 09/24/09 Time: 1040
 Level: (low/med) LOW Date Received: 09/25/09
 % Moisture: decanted: (Y/N) Date Extracted: 09/28/09
 GC Column: DB-5MS-30M ID: .25 (mm) Date Analyzed: 09/30/09 Time: 1354
 Concentrated Extract Volume: 1000 (µL) Dilution Factor: 1 Analyst: KCB
 Injection Volume: 1.0 (µL) Prep Method: OLM4.2 SVOA
 GPC Cleanup: (Y/N) N pH: Analytical Method: OLMO 4.2
 CONCENTRATION UNITS: ug/L Instrument ID: MSSV4
 Prep Batch: 419056 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	10	U	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	26	U	0.01	26
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	26	U	0.01	26
87-86-5	Pentachlorophenol	26	U	0.01	26
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

10/10/2009
 30.DEC.2009

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-GW58-1031		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:	SDG No.: 209092332			Lab File ID:	2090930/d6458		
Matrix:	Water			Lab Sample ID:	20909233218		
Sample wt/vol:	980	Units:	mL	Date Collected:	09/24/09	Time:	1040
Level: (low/med)	LOW			Date Received:	09/25/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/28/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1354
Concentrated Extract Volume:	1000	(μ L)		Dilution Factor:	1	Analyst:	KCB
Injection Volume:	1.0	(μ L)		Prep Method:	OLM4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS:	ug/L			Instrument ID:	MSSV4		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL		
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10		
95-48-7	o-Cresol	10	U	0.01	10		

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL Sample ID: SK-GW58-1031
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092332 Contract:
 Matrix: Water Lab File ID: 2090930/d6458
 Sample wt/vol: 980 Units: mL Lab Sample ID: 20909233218
 Level: (low/med) Date Collected: 09/24/09 Time: 1040
 % Moisture: not dec. Date Received: 09/25/09
 GC Column: DB-5MS-30M ID: .25 Date Extracted: 09/28/09
 Concentrated Extract Volume: 1000 (µL) Date Analyzed: 09/30/09 Time: 1354
 Injection Volume: 1.0 (µL) Dilution Factor: 1 Analyst: KCB
 GPC Cleanup: (Y/N) N pH: Prep Method: DLM4.2 SYOA
 Analytical Method: SW-846 8270C Instrument ID: MSSV4 DLM0 4.2

Number TICs Found : 10

CONCENTRATION UNITS:ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	Unknown	.724	4.04	
2.	Unknown	1.302	16.1	
3.	Unknown	.778	11.8	
4.	26456-76-8 2-Hexene, 3,5,5-trimethyl-	.805	3	
5.	Unknown	.831	3.72	
6.	Unknown	1.072	1.59	
7.	Unknown	1.158	8.25	
8.	Unknown	1.206	3.13	
9.	Unknown	1.254	1.83	
10.	Unknown	1.286	17.3	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092332
 Matrix: Water
 Sample wt/vol: 980 Units: mL
 Level: (low/med) LOW
 % Moisture: decanted: (Y/N)
 GC Column: DB-5MS-30M ID: .25 (mm)
 Concentrated Extract Volume: 1000 (µL)
 Injection Volume: 1.0 (µL)
 GPC Cleanup: (Y/N) N pH:
 CONCENTRATION UNITS: ug/L

Sample ID: SK-GW59-1031
 Contract:
 Lab File ID: 2090930/d6461
 Lab Sample ID: 20909233222
 Date Collected: 09/24/09 Time: 1400
 Date Received: 09/25/09
 Date Extracted: 09/28/09
 Date Analyzed: 09/30/09 Time: 1440
 Dilution Factor: 1 Analyst: KCB
 Prep Method: OLM4.2 SVOA
 Analytical Method: OLMO 4.2
 Instrument ID: MSSV4
 Prep Batch: 419056 Analytical Batch: 419087

CAS NO. COMPOUND

RESULT Q MDL RL

95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	26	U	0.01	26
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	26	U	0.01	26
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	26	U	0.01	26
534-52-1	2-Methyl-4,6-dinitrophenol	26	U	0.01	26
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW59-1031	
Lab Code:	LA024	Case No.:	Contract:		
SAS No.:	SDG No.: 209092332		Lab File ID:	2090930/d6461	
Matrix:	Water		Lab Sample ID:	20909233222	
Sample wt/vol:	980	Units: mL	Date Collected:	09/24/09	Time: 1400
Level: (low/med)	LOW		Date Received:	09/25/09	
% Moisture:	decanted: (Y/N)		Date Extracted:	09/28/09	
GC Column:	DB-5MS-30M	ID: .25 (mm)	Date Analyzed:	09/30/09	Time: 1440
Concentrated Extract Volume:	1000	(μL)	Dilution Factor:	1	Analyst: KCB
Injection Volume:	1.0	(μL)	Prep Method:	OLM4.2 SVOA	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
CONCENTRATION UNITS: ug/L					
Prep Batch:	419056		Analytical Batch:	419087	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	0.6	J	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	26	U	0.01	26
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	26	U	0.01	26
87-86-5	Pentachlorophenol	26	U	0.01	26
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

FORM I SV-1

408

11/5/10
MSK

1B
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-GW59-1031		
Lab Code:	LA024	Case No.:		Contract:			
SAS No.:		SDG No.:	209092332	Lab File ID:	2090930/d6461		
Matrix:	Water			Lab Sample ID:	20909233222		
Sample wt/vol:	980	Units:	mL	Date Collected:	09/24/09	Time:	1400
Level: (low/med)	LOW			Date Received:	09/25/09		
% Moisture:	decanted: (Y/N)			Date Extracted:	09/28/09		
GC Column:	DB-5MS-30M	ID:	.25 (mm)	Date Analyzed:	09/30/09	Time:	1440
Concentrated Extract Volume:	1000	(μ L)		Dilution Factor:	1	Analyst:	KCB
Injection Volume:	1.0	(μ L)		Prep Method:	OLM4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2		
CONCENTRATION UNITS: ug/L				Instrument ID:	MSSV4		
CAS NO.	COMPOUND	RESULT	Q	MDL	RL		
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10		
95-48-7	o-Cresol	10	U	0.01	10		

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: Water

Sample wt/vol: 980

Units: mL

Level: (low/med)

LOW

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 10

CONCENTRATION UNITS:ug/L

CAS NO. COMPOUND

Sample ID: SK-GW59-1031

Contract:

Lab File ID: 2090930/d6461

Lab Sample ID: 20909233222

Date Collected: 09/24/09 Time: 1400

Date Received: 09/25/09

Date Extracted: 09/28/09

Date Analyzed: 09/30/09 Time: 1440

Dilution Factor: 1 Analyst: KCB

Prep Method: DLM 4.2 SYOA

Analytical Method: SW-846-8270C DLM 4.2

Instrument ID: MSSV4

1.	Unknown	.778	10.3	Q
2.	115-28-6 Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid	4.645	11	
3.	Unknown	1.163	6.65	
4.	Unknown	1.286	12.8	
5.	Unknown	1.302	13.1	
6.	Unknown	2.174	236	
7.	Unknown	2.506	16.6	
8.	Unknown	2.543	13.2	
9.	Unknown	2.629	15.5	
10.	Unknown	3.549	6	

JKM
30. DEC. 2009

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
 Lab Code: LA024 Case No.:
 SAS No.: SDG No.: 209092332
 Matrix: Water
 Sample wt/vol: 970 Units: mL
 Level: (low/med) LOW
 % Moisture: decanted: (Y/N)
 GC Column: DB-5MS-30M ID: .25 (mm)
 Concentrated Extract Volume: 1000 (µL)
 Injection Volume: 1.0 (µL)
 GPC Cleanup: (Y/N) N pH:
 CONCENTRATION UNITS: ug/L

Sample ID: SK-GW61-1031
 Contract:
 Lab File ID: 2090930/d6462
 Lab Sample ID: 20909233223
 Date Collected: 09/24/09 Time: 1420
 Date Received: 09/25/09
 Date Extracted: 09/28/09
 Date Analyzed: 09/30/09 Time: 1455
 Dilution Factor: 1 Analyst: KCB
 Prep Method: OLM4.2 SVOA
 Analytical Method: OLMO 4.2
 Instrument ID: MSSV4
 Prep Batch: 419056 Analytical Batch: 419087

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	10	U	0.01	10
88-06-2	2,4,6-Trichlorophenol	10	U	0.01	10
120-83-2	2,4-Dichlorophenol	10	U	0.01	10
51-28-5	2,4-Dinitrophenol	26	U	0.01	26
121-14-2	2,4-Dinitrotoluene	10	U	0.01	10
606-20-2	2,6-Dinitrotoluene	10	U	0.01	10
91-58-7	2-Chloronaphthalene	10	U	0.01	10
95-57-8	2-Chlorophenol	10	U	0.01	10
91-57-6	2-Methylnaphthalene	10	U	0.01	10
88-74-4	2-Nitroaniline	26	U	0.01	26
88-75-5	2-Nitrophenol	10	U	0.01	10
91-94-1	3,3'-Dichlorobenzidine	10	U	0.01	10
99-09-2	3-Nitroaniline	26	U	0.01	26
534-52-1	2-Methyl-4,6-dinitrophenol	26	U	0.01	26
59-50-7	4-Chloro-3-methylphenol	10	U	0.01	10
106-47-8	4-Chloroaniline	10	U	0.01	10
7005-72-3	4-Chlorophenyl-phenylether	10	U	0.01	10
106-44-5	4-Methylphenol (p-Cresol)	10	U	0.01	10
83-32-9	Acenaphthene	10	U	0.01	10
208-96-8	Acenaphthylene	10	U	0.01	10
120-12-7	Anthracene	10	U	0.01	10
56-55-3	Benzo(a)anthracene	10	U	0.01	10
50-32-8	Benzo(a)pyrene	10	U	0.01	10
205-99-2	Benzo(b)fluoranthene	10	U	0.01	10
191-24-2	Benzo(g,h,i)perylene	10	U	0.01	10
207-08-9	Benzo(k)fluoranthene	10	U	0.01	10
111-91-1	Bis(2-Chloroethoxy)methane	10	U	0.01	10
111-44-4	Bis(2-Chloroethyl)ether	10	U	0.01	10
108-60-1	bis(2-Chloroisopropyl)ether	10	U	0.01	10

1B
SEMOVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SK-GW61-1031	
Lab Code:	LA024	Case No.:	Contract:	
SAS No.:		SDG No.:	209092332	
Matrix:	Water	Lab File ID:	2090930/d6462	
Sample wt/vol:	970	Units:	mL	
Level: (low/med)	LOW	Date Collected:	09/24/09	
% Moisture:	decanted: (Y/N)	Date Received:	09/25/09	
GC Column:	DB-5MS-30M	ID:	.25 (mm)	
Concentrated Extract Volume:	1000	(μ L)	Date Extracted:	09/28/09
Injection Volume:	1.0	(μ L)	Date Analyzed:	09/30/09
GPC Cleanup: (Y/N)	N	pH:	Dilution Factor:	1
CONCENTRATION UNITS: ug/L				
Prep Method:	OLM4.2 SVOA	Analytical Method:	OLMO 4.2	
Instrument ID:	MSSV4			
Prep Batch:	419056	Analytical Batch:	419087	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
117-81-7	bis(2-ethylhexyl)phthalate	0.8	J	0.01	10
101-55-3	4-Bromophenyl-phenylether	10	U	0.01	10
85-68-7	Butylbenzylphthalate	10	U	0.01	10
86-74-8	Carbazole	10	U	0.01	10
218-01-9	Chrysene	10	U	0.01	10
84-74-2	Di-n-butylphthalate	10	U	0.01	10
117-84-0	Di-n-octylphthalate	10	U	0.01	10
53-70-3	Dibenz(a,h)anthracene	10	U	0.01	10
132-64-9	Dibenzofuran	10	U	0.01	10
84-66-2	Diethylphthalate	10	U	0.01	10
131-11-3	Dimethyl-phthalate	10	U	0.01	10
105-67-9	2,4-Dimethylphenol	10	U	0.01	10
206-44-0	Fluoranthene	10	U	0.01	10
86-73-7	Fluorene	10	U	0.01	10
118-74-1	Hexachlorobenzene	10	U	0.01	10
87-68-3	Hexachlorobutadiene	10	U	0.01	10
77-47-4	Hexachlorocyclopentadiene	10	U	0.01	10
67-72-1	Hexachloroethane	10	U	0.01	10
193-39-5	Indeno(1,2,3-cd)pyrene	10	U	0.01	10
78-59-1	Isophorone	10	U	0.01	10
91-20-3	Naphthalene	10	U	0.01	10
100-01-6	4-Nitroaniline	26	U	0.01	26
98-95-3	Nitrobenzene	10	U	0.01	10
100-02-7	4-Nitrophenol	26	U	0.01	26
87-86-5	Pentachlorophenol	26	U	0.01	26
85-01-8	Phenanthrene	10	U	0.01	10
108-95-2	Phenol	10	U	0.01	10
129-00-0	Pyrene	10	U	0.01	10
621-64-7	N-Nitroso-di-n-propylamine	10	U	0.01	10

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW61-1031
Lab Code: LA024	Case No.: _____
SAS No.: _____	SDG No.: <u>209092332</u>
Matrix: Water	Contract: _____
Sample wt/vol: 970	Units: mL
Level: (low/med) LOW	Lab File ID: 2090930/d6462
% Moisture: _____	Lab Sample ID: 20909233223
GC Column: DB-5MS-30M	ID: .25 (mm)
Concentrated Extract Volume: 1000	(μ L)
Injection Volume: 1.0	(μ L)
GPC Cleanup: (Y/N) N	pH: _____
CONCENTRATION UNITS: ug/L	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
86-30-6	N-Nitrosodiphenylamine	10	U	0.01	10
95-48-7	o-Cresol	10	U	0.01	10

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL	Sample ID:	SK-GW61-1031
Lab Code:	LA024	Case No.:	
SAS No.:		SDG No.:	209092332
Matrix:	Water	Contract:	
Sample wt/vol:	970	Units:	mL
Level: (low/med)	LOW	Date Received:	09/25/09
% Moisture: not dec.		Date Extracted:	09/28/09
GC Column:	DB-5MS-30M	ID:	.25 (mm)
Concentrated Extract Volume:	1000	(μ L)	
Injection Volume:	1.0	(μ L)	
Prep Method:	OLM 4.2 SVOA		
GPC Cleanup: (Y/N)	N	pH:	Analytical Method: SW-846-8270C OLM 4.2
Instrument ID:	MSSV4		

Number TICs Found : 10

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 123-91-1	1,4-Dioxane	.43	28.2	
2.	Unknown	4.821	15.2	
3.	Unknown	.778	13.2	
4.	Unknown	1.163	8.3	
5.	Unknown	1.286	16.3	
6.	Unknown	1.302	16.1	
7.	Unknown	2.019	6.47	
8.	Unknown	2.575	7.8	
9. 13014-18-1	Benzene, 2,4-dichloro-1-(trichloromethyl)	4.5	20.5	
10. 115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-dicarboxyli	4.655	244	

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW64-1031
Lab Code: LA024	Case No.:
Matrix: Water	SAS No.: SDG No.: 209092332
Sample wt/vol: 990	Units: mL
Level: (low/med) LOW	Contract:
% Moisture:	decanted: (Y/N)
GC Column:	ID: (mm)
Concentrated Extract Volume: 10000	(μL)
Soil Aliquot Volume:	(μL)
Injection Volume: 1	(μL)
GPC Cleanup: (Y/N) N	pH:
Prep Batch: 418878	Analytical Batch: 420022
CONCENTRATION UNITS: ug/L	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

JLM
 30. DEC. 2001

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW63-1031	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092332	
Sample wt/vol:	990	Units: mL	Lab Sample ID:	20909233205	
Level: (low/med)	LOW		Date Collected:	09/23/09	Time: 1105
% Moisture:	decanted: (Y/N)		Date Received:	09/24/09	
GC Column:	ID:	(mm)	Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μ L)	Date Analyzed:	10/14/09	Time: 2301
Soil Aliquot Volume:		(μ L)	Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μ L)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N
CONCENTRATION UNITS: ug/L			Instrument ID:	GCS18A	
			Lab File ID:	2091014p/sv18a027	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

APRIL
 30, DEC. 2009

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-FD-1031 (GW63)	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092332	
Sample wt/vol:	980	Units: mL	Lab Sample ID:	20909233206	
Level: (low/med)	LOW		Date Collected:	09/23/09	Time: 1105
% Moisture:	decanted: (Y/N)		Date Received:	09/24/09	
GC Column:	ID:	(mm)	Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μL)	Date Analyzed:	10/15/09	Time: 0013
Soil Aliquot Volume:	(μL)		Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μL)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N Instrument ID: GCS18A
CONCENTRATION UNITS:	ug/L		Lab File ID:	2091014p/sv18a031	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.02	U	0.00102	1.02
72-55-9	4,4'-DDE	1.02	U	0.00102	1.02
50-29-3	4,4'-DDT	1.02	U	0.00102	1.02
309-00-2	Aldrin	0.510	U	0.00102	0.510
12674-11-2	Aroclor-1016	10.2	U	0.00102	10.2
11104-28-2	Aroclor-1221	20.4	U	0.00102	20.4
11141-16-5	Aroclor-1232	10.2	U	0.00102	10.2
53469-21-9	Aroclor-1242	10.2	U	0.00102	10.2
12672-29-6	Aroclor-1248	10.2	U	0.00102	10.2
11097-69-1	Aroclor-1254	10.2	U	0.00102	10.2
11096-82-5	Aroclor-1260	10.2	U	0.00102	10.2
60-57-1	Dieldrin	1.02	U	0.00102	1.02
959-98-8	Endosulfan I	0.510	U	0.00102	0.510
33213-65-9	Endosulfan II	1.02	U	0.00102	1.02
1031-07-8	Endosulfan sulfate	1.02	U	0.00102	1.02
72-20-8	Endrin	1.02	U	0.00102	1.02
7421-93-4	Endrin aldehyde	1.02	U	0.00102	1.02
53494-70-5	Endrin ketone	1.02	U	0.00102	1.02
76-44-8	Heptachlor	0.510	U	0.00102	0.510
1024-57-3	Heptachlor epoxide	0.510	U	0.00102	0.510
72-43-5	Methoxychlor	5.10	U	0.00102	5.10
8001-35-2	Toxaphene	51.0	U	0.00102	51.0
319-84-6	alpha-BHC	0.510	U	0.00102	0.510
5103-71-9	alpha-Chlordane	0.510	U	0.00102	0.510
319-85-7	beta-BHC	0.510	U	0.00102	0.510
319-86-8	delta-BHC	0.510	U	0.00102	0.510
58-89-9	gamma-BHC (Lindane)	0.510	U	0.00102	0.510
5103-74-2	gamma-Chlordane	0.510	U	0.00102	0.510

1507
 30 DEC 2003
 1000

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>GCAL</u>	Sample ID: <u>SK-GW6R-1031</u>	
Lab Code: <u>LA024</u>	Contract: _____	
Matrix: <u>Water</u>	SAS No.: _____ SDG No.: <u>209092332</u>	
Sample wt/vol: <u>990</u> Units: <u>mL</u>	Lab Sample ID: <u>20909233207</u>	
Level: (low/med) <u>LOW</u>	Date Collected: <u>09/23/09</u> Time: <u>1450</u>	
% Moisture: _____ decanted: (Y/N) _____	Date Received: <u>09/24/09</u>	
GC Column: _____ ID: _____ (mm)	Date Extracted: <u>09/24/09</u>	
Concentrated Extract Volume: <u>10000</u> (µL)	Date Analyzed: <u>10/15/09</u> Time: <u>0031</u>	
Soil Aliquot Volume: _____ (µL)	Dilution Factor: <u>1</u> Analyst: <u>DLB</u>	
Injection Volume: <u>1</u> (µL)	Prep Method: <u>OLM4.2 PEST/PCB</u>	
GPC Cleanup: (Y/N) <u>N</u> pH: _____	Analytical Method: <u>OLMO 4.2</u>	
Prep Batch: <u>418878</u>	Sulfur Cleanup: (Y/N) <u>N</u> Instrument ID: <u>GCS18A</u>	
CONCENTRATION UNITS: ug/L		
		Lab File ID: <u>2091014p/sv18a032</u>

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

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ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL			Sample ID:	SK-GW7R-1031	
Lab Code:	LA024	Case No.:		Contract:		
Matrix:	Water			SAS No.:	SDG No.: 209092332	
Sample wt/vol:	990	Units:	mL	Lab Sample ID:	20909233208	
Level: (low/med)	LOW			Date Collected:	09/23/09	Time: 1505
% Moisture:	decanted: (Y/N)			Date Received:	09/24/09	
GC Column:	ID:	(mm)		Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μ L)		Date Analyzed:	10/15/09	Time: 0049
Soil Aliquot Volume:		(μ L)		Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μ L)		Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:		Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N	Instrument ID: GCS18A
CONCENTRATION UNITS: ug/L				Lab File ID:	2091014p/sv18a033	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Die�drin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

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ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW62A-1031	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092332	
Sample wt/vol:	990	Units: mL	Lab Sample ID:	20909233209	
Level: (low/med)	LOW		Date Collected:	09/23/09	Time: 1145
% Moisture:	decanted: (Y/N)		Date Received:	09/24/09	
GC Column:	ID:	(mm)	Date Extracted:	09/24/09	
Concentrated Extract Volume:	10000	(μL)	Date Analyzed:	10/15/09	Time: 0107
Soil Aliquot Volume:	(μL)		Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μL)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	418878	Analytical Batch:	420022	Sulfur Cleanup: (Y/N)	N
CONCENTRATION UNITS: ug/L			Instrument ID:	GCS18A	
			Lab File ID:	2091014p/sv18a034	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-FD-1031 (GW6R)
Lab Code: LA024	Contract:
Matrix: Water	SAS No.: SDG No.: 209092332
Sample wt/vol: 980	Units: mL
Level: (low/med) LOW	Lab Sample ID: 20909233210
% Moisture: decanted: (Y/N)	Date Collected: 09/23/09 Time: 0000
GC Column: ID: (mm)	Date Received: 09/24/09
Concentrated Extract Volume: 10000 (µL)	Date Extracted: 09/24/09
Soil Aliquot Volume: (µL)	Date Analyzed: 10/15/09 Time: 0125
Injection Volume: 1 (µL)	Dilution Factor: 1 Analyst: DLB
GPC Cleanup: (Y/N) N pH:	Prep Method: OLM4.2 PEST/PCB
Prep Batch: 418878 Analytical Batch: 420022	Analytical Method: OLMO 4.2
CONCENTRATION UNITS: ug/L	Sulfur Cleanup: (Y/N) N Instrument ID: GCS18A
	Lab File ID: 2091014p/sv18a035

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.02	U	0.00102	1.02
72-55-9	4,4'-DDE	1.02	U	0.00102	1.02
50-29-3	4,4'-DDT	1.02	U	0.00102	1.02
309-00-2	Aldrin	0.510	U	0.00102	0.510
12674-11-2	Aroclor-1016	10.2	U	0.00102	10.2
11104-28-2	Aroclor-1221	20.4	U	0.00102	20.4
11141-16-5	Aroclor-1232	10.2	U	0.00102	10.2
53469-21-9	Aroclor-1242	10.2	U	0.00102	10.2
12672-29-6	Aroclor-1248	10.2	U	0.00102	10.2
11097-69-1	Aroclor-1254	10.2	U	0.00102	10.2
11096-82-5	Aroclor-1260	10.2	U	0.00102	10.2
60-57-1	Die�drin	1.02	U	0.00102	1.02
959-98-8	Endosulfan I	0.510	U	0.00102	0.510
33213-65-9	Endosulfan II	1.02	U	0.00102	1.02
1031-07-8	Endosulfan sulfate	1.02	U	0.00102	1.02
72-20-8	Endrin	1.02	U	0.00102	1.02
7421-93-4	Endrin aldehyde	1.02	U	0.00102	1.02
53494-70-5	Endrin ketone	1.02	U	0.00102	1.02
76-44-8	Heptachlor	0.510	U	0.00102	0.510
1024-57-3	Heptachlor epoxide	0.510	U	0.00102	0.510
72-43-5	Methoxychlor	5.10	U	0.00102	5.10
8001-35-2	Toxaphene	51.0	U	0.00102	51.0
319-84-6	alpha-BHC	0.510	U	0.00102	0.510
5103-71-9	alpha-Chlordane	0.510	U	0.00102	0.510
319-85-7	beta-BHC	0.510	U	0.00102	0.510
319-86-8	delta-BHC	0.510	U	0.00102	0.510
58-89-9	gamma-BHC (Lindane)	0.510	U	0.00102	0.510
5103-74-2	gamma-Chlordane	0.510	U	0.00102	0.510

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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL	Sample ID: SK-GW58-1031	
Lab Code: LA024	Contract:	
Matrix: Water	SAS No.: SDG No.: 209092332	
Sample wt/vol: 990	Units: mL	Lab Sample ID: 20909233218
Level: (low/med) LOW	Date Collected: 09/24/09	Time: 1040
% Moisture: decanted: (Y/N)	Date Received: 09/25/09	
GC Column: ID: (mm)	Date Extracted: 09/29/09	
Concentrated Extract Volume: 10000 (µL)	Date Analyzed: 10/06/09	Time: 1357
Soil Aliquot Volume: (µL)	Dilution Factor: 1	Analyst: DLB
Injection Volume: 1 (µL)	Prep Method: OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N) N pH:	Analytical Method: OLMO 4.2	
Prep Batch: 419066	Sulfur Cleanup: (Y/N) N	Instrument ID: GCS18A
CONCENTRATION UNITS: ug/L		Lab File ID: 2091006/sv18a019

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	1.01	U	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11098-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	1.01	U	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	1.01	U	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.505	U	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

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ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW59-1031	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092332	
Sample wt/vol:	990	Units: mL	Lab Sample ID:	20909233222	
Level: (low/med)	LOW		Date Collected:	09/24/09	Time: 1400
% Moisture:	decanted: (Y/N)		Date Received:	09/25/09	
GC Column:	ID:	(mm)	Date Extracted:	09/29/09	
Concentrated Extract Volume:	10000	(μL)	Date Analyzed:	10/06/09	Time: 1451
Soil Aliquot Volume:	(μL)		Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μL)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	419066	Analytical Batch:	419590	Sulfur Cleanup: (Y/N)	N Instrument ID: GCS18A
CONCENTRATION UNITS: ug/L			Lab File ID:	2091006/sv18a022	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.01	U	0.00101	1.01
72-55-9	4,4'-DDE	1.01	U	0.00101	1.01
50-29-3	4,4'-DDT	0.00400	J	0.00101	1.01
309-00-2	Aldrin	0.505	U	0.00101	0.505
12674-11-2	Aroclor-1016	10.1	U	0.00101	10.1
11104-28-2	Aroclor-1221	20.2	U	0.00101	20.2
11141-16-5	Aroclor-1232	10.1	U	0.00101	10.1
53469-21-9	Aroclor-1242	10.1	U	0.00101	10.1
12672-29-6	Aroclor-1248	10.1	U	0.00101	10.1
11097-69-1	Aroclor-1254	10.1	U	0.00101	10.1
11096-82-5	Aroclor-1260	10.1	U	0.00101	10.1
60-57-1	Dieldrin	0.00400	J	0.00101	1.01
959-98-8	Endosulfan I	0.505	U	0.00101	0.505
33213-65-9	Endosulfan II	1.01	U	0.00101	1.01
1031-07-8	Endosulfan sulfate	1.01	U	0.00101	1.01
72-20-8	Endrin	0.00400	J	0.00101	1.01
7421-93-4	Endrin aldehyde	1.01	U	0.00101	1.01
53494-70-5	Endrin ketone	1.01	U	0.00101	1.01
76-44-8	Heptachlor	0.00230	J	0.00101	0.505
1024-57-3	Heptachlor epoxide	0.505	U	0.00101	0.505
72-43-5	Methoxychlor	5.05	U	0.00101	5.05
8001-35-2	Toxaphene	50.5	U	0.00101	50.5
319-84-6	alpha-BHC	0.505	U	0.00101	0.505
5103-71-9	alpha-Chlordane	0.505	U	0.00101	0.505
319-85-7	beta-BHC	0.505	U	0.00101	0.505
319-86-8	delta-BHC	0.505	U	0.00101	0.505
58-89-9	gamma-BHC (Lindane)	0.505	U	0.00101	0.505
5103-74-2	gamma-Chlordane	0.505	U	0.00101	0.505

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ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL		Sample ID:	SK-GW61-1031	
Lab Code:	LA024	Case No.:	Contract:		
Matrix:	Water		SAS No.:	SDG No.: 209092332	
Sample wt/vol:	980	Units: mL	Lab Sample ID:	20909233223	
Level: (low/med)	LOW		Date Collected:	09/24/09	Time: 1420
% Moisture:	decanted: (Y/N)		Date Received:	09/25/09	
GC Column:	ID:	(mm)	Date Extracted:	09/29/09	
Concentrated Extract Volume:	10000	(μ L)	Date Analyzed:	10/06/09	Time: 1509
Soil Aliquot Volume:	(μ L)		Dilution Factor:	1	Analyst: DLB
Injection Volume:	1	(μ L)	Prep Method:	OLM4.2 PEST/PCB	
GPC Cleanup: (Y/N)	N	pH:	Analytical Method:	OLMO 4.2	
Prep Batch:	419066	Analytical Batch:	419590	Sulfur Cleanup: (Y/N)	N
CONCENTRATION UNITS:	ug/L		Instrument ID:	GCS18A	
			Lab File ID:	2091006/sv18a023	

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.02	U	0.00102	1.02
72-55-9	4,4'-DDE	1.02	U	0.00102	1.02
50-29-3	4,4'-DDT	0.00270	J	0.00102	1.02
309-00-2	Aldrin	0.510	U	0.00102	0.510
12674-11-2	Aroclor-1016	10.2	U	0.00102	10.2
11104-28-2	Aroclor-1221	20.4	U	0.00102	20.4
11141-16-5	Aroclor-1232	10.2	U	0.00102	10.2
53469-21-9	Aroclor-1242	10.2	U	0.00102	10.2
12672-29-6	Aroclor-1248	10.2	U	0.00102	10.2
11097-69-1	Aroclor-1254	10.2	U	0.00102	10.2
11096-82-5	Aroclor-1260	10.2	U	0.00102	10.2
60-57-1	Dieldrin	1.02	U	0.00102	1.02
959-98-8	Endosulfan I	0.510	U	0.00102	0.510
33213-65-9	Endosulfan II	1.02	U	0.00102	1.02
1031-07-8	Endosulfan sulfate	1.02	U	0.00102	1.02
72-20-8	Endrin	1.02	U	0.00102	1.02
7421-93-4	Endrin aldehyde	1.02	U	0.00102	1.02
53494-70-5	Endrin ketone	1.02	U	0.00102	1.02
76-44-8	Heptachlor	0.510	U	0.00102	0.510
1024-57-3	Heptachlor epoxide	0.510	U	0.00102	0.510
72-43-5	Methoxychlor	5.10	U	0.00102	5.10
8001-35-2	Toxaphene	51.0	U	0.00102	51.0
319-84-6	alpha-BHC	0.510	U	0.00102	0.510
5103-71-9	alpha-Chlordane	0.510	U	0.00102	0.510
319-85-7	beta-BHC	0.510	U	0.00102	0.510
319-86-8	delta-BHC	0.510	U	0.00102	0.510
58-89-9	gamma-BHC (Lindane)	0.510	U	0.00102	0.510
5103-74-2	gamma-Chlordane	0.510	U	0.00102	0.510

INORGANIC ANALYSIS DATA SHEET

SK-GW64-1031

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092332

Matrix: (soil / water) Water Lab Sample ID: 20909233201

Level: (low / med) Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	881		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	46.0	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.3	B		P
7440-70-2	Calcium	174000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	1.1	B		P
7440-50-8	Copper	8.4	B		P
7439-89-6	Iron	2330		E	P
7439-92-1	Lead	4.1		E	P
7439-95-4	Magnesium	49400			P
7439-96-5	Manganese	695			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium	6440		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	32500			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW65-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233202

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13900		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	79.3	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	2.6	B		P
7440-70-2	Calcium	263000			P
7440-47-3	Chromium	3.5	B		P
7440-48-4	Cobalt	16.2	B		P
7440-50-8	Copper	32.9			P
7439-89-6	Iron	38400		E	P
7439-92-1	Lead	22.4		E	P
7439-95-4	Magnesium	159000			P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	35.9	B		P
7440-09-7	Potassium	8500		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	36100			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	83.3			P

Color Before: DR BRWN

Clarity Before: CLEAR

Texture:

Color After: DR BRWN

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW64-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233204

Level: (low / med)

Date Received: 09/23/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	57.8	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	44.5	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	170000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	8.0	B		P
7439-89-6	Iron	20.5	B		P
7439-92-1	Lead	1.7	B	E	P
7439-95-4	Magnesium	50500			P
7439-96-5	Manganese	90.6		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.9	B		P
7440-09-7	Potassium	5980			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	32700			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW63-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233205

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5580		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	68.5	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	252000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	5.9	B		P
7440-50-8	Copper	17.1	B		P
7439-89-6	Iron	13800		E	P
7439-92-1	Lead	10.6		E	P
7439-95-4	Magnesium	58900			P
7439-96-5	Manganese	1460			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	12.9	B		P
7440-09-7	Potassium	8430		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	43900			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	28.4			P
57-12-5	Cyanide	1.6	U		AS

Color Before: LT BRWN

Clarity Before: CLEAR

Texture:

Color After: LT BRWN

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-FD-1031 (GW63)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092332

Matrix: (soil / water) Water Lab Sample ID: 20909233206

Level: (low / med) Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6770		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	73.1	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	1.5	B		P
7440-70-2	Calcium	252000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	7.2	B		P
7440-50-8	Copper	18.4	B		P
7439-89-6	Iron	16400		E	P
7439-92-1	Lead	11.7		E	P
7439-95-4	Magnesium	58900			P
7439-96-5	Manganese	1620			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	14.6	B		P
7440-09-7	Potassium	8400		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	43400			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	34.4			P
57-12-5	Cyanide	1.6	U		AS

Color Before: LT BRWN

Clarity Before: CLEAR

Texture:

Color After: LT BRWN

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW6R-1031

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 209092332

Matrix: (soil / water) Water Lab Sample ID: 20909233207

Level: (low / med) _____ Date Received: 09/24/09

% Solids: _____

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	303		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	203			P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.4	B		P
7440-70-2	Calcium	205000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	954		E	P
7439-92-1	Lead	3.7		E	P
7439-95-4	Magnesium	36100			P
7439-96-5	Manganese	44.6			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	B		P
7440-09-7	Potassium	2800	B	E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	19500			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

INORGANIC ANALYSIS DATA SHEET

SK-GW7R-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233208

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	780		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	74.6	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	289000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	5.5	B		P
7440-50-8	Copper	8.7	B		P
7439-89-6	Iron	7910		E	P
7439-92-1	Lead	3.4		E	P
7439-95-4	Magnesium	51500			P
7439-96-5	Manganese	3200			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	4.5	B		P
7440-09-7	Potassium	2730	B	E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	25600			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW62A-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233209

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2650		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	157	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	1.3	B		P
7440-70-2	Calcium	138000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	2.0	B		P
7440-50-8	Copper	12.8	B		P
7439-89-6	Iron	6640		E	P
7439-92-1	Lead	6.2		E	P
7439-95-4	Magnesium	46500			P
7439-96-5	Manganese	201			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	7.7	B		P
7440-09-7	Potassium	7280		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	102000			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	13.1	B		P
57-12-5	Cyanide	1.6	U		AS

Color Before: CLEAR

Clarity Before: CLOUDY

Texture:

Color After: CLEAR

Clarity After: CLOUDY

Artifacts:

Comments:

11510
msa

948

INORGANIC ANALYSIS DATA SHEET

SK-FD-1031 (GW6R)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233210

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1330		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	212			P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.5	B		P
7440-70-2	Calcium	198000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	7.7	B		P
7439-89-6	Iron	3360		E	P
7439-92-1	Lead	6.0		E	P
7439-95-4	Magnesium	35400			P
7439-96-5	Manganese	92.4			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium	2910	B	E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	19000			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.7	B		P
57-12-5	Cyanide	1.6	U		AS

Color Before: CLEAR

Clarity Before: CLOUDY

Texture:

Color After: CLEAR

Clarity After: CLOUDY

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW63-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233212

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32.1	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	33.2	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	227000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	7.8	B		P
7439-89-6	Iron	6.2	B		P
7439-92-1	Lead	2.4	B	E	P
7439-95-4	Magnesium	52100			P
7439-96-5	Manganese	1740		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.1	B		P
7440-09-7	Potassium	6810			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	46500			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

115110
m/s

950

INORGANIC ANALYSIS DATA SHEET

SK-FD-1031 (GW63) DISS

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233213

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.3	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	31.1	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	216000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	7.8	B		P
7439-89-6	Iron	18.7	B		P
7439-92-1	Lead	3.1		E	P
7439-95-4	Magnesium	49200			P
7439-96-5	Manganese	1570		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.5	B		P
7440-09-7	Potassium	6810			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	42900			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

11/15/10
mc

951

INORGANIC ANALYSIS DATA SHEET

SK-GW6R-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233214

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	60.7	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	198	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.3	B		P
7440-70-2	Calcium	208000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	5.9	B		P
7439-89-6	Iron	291			P
7439-92-1	Lead	2.7	B	E	P
7439-95-4	Magnesium	36400			P
7439-96-5	Manganese	41.1		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.8	B		P
7440-09-7	Potassium	2800	B		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	20300			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW7R-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix (soil / water) Water

Lab Sample ID: 20909233215

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.1	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	47.0	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	292000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	6.6	B		P
7439-89-6	Iron	2210			P
7439-92-1	Lead	1.6	U	E	P
7439-95-4	Magnesium	51900			P
7439-96-5	Manganese	3170		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	2690	B		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	26500			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW62A-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233216

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.1	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	110	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.6	B		P
7440-70-2	Calcium	126000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	7.5	B		P
7439-89-6	Iron	20.8	B		P
7439-92-1	Lead	1.9	B	E	P
7439-95-4	Magnesium	43700			P
7439-96-5	Manganese	0.5	U	E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	6670			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	103000			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-FD-1031 (GW6R) DISS

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233217

Level: (low / med)

Date Received: 09/24/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	39.0	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	211			P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.3	B		P
7440-70-2	Calcium	210000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	6.2	B		P
7439-89-6	Iron	322			P
7439-92-1	Lead	2.3	B	E	P
7439-95-4	Magnesium	36700			P
7439-96-5	Manganese	82.3		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	B		P
7440-09-7	Potassium	2950	B		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	20800			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW58-1031

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092332

Matrix: (soil / water) Water Lab Sample ID: 20909233218

Level: (low / med) Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1140		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	122	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.7	B		P
7440-70-2	Calcium	108000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	7.1	B		P
7439-89-6	Iron	1970		E	P
7439-92-1	Lead	3.7		E	P
7439-95-4	Magnesium	31800			P
7439-96-5	Manganese	56.7			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.3	B		P
7440-09-7	Potassium	3490	B	E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	25000			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW59-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233222

Level: (low / med)

Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	70.9	B	E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	37.4	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	185000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	6.8	B		P
7439-89-6	Iron	86.0	B	E	P
7439-92-1	Lead	1.6	U	E	P
7439-95-4	Magnesium	34800			P
7439-96-5	Manganese	7.3	B		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	25400		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	86500			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW61-1031

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233223

Level: (low / med)

Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	107	B	E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	25.1	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.3	B		P
7440-70-2	Calcium	340000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	1.0	B		P
7440-50-8	Copper	11.5	B		P
7439-89-6	Iron	925		E	P
7439-92-1	Lead	2.7	B	E	P
7439-95-4	Magnesium	74100			P
7439-96-5	Manganese	418			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	5.5	B		P
7440-09-7	Potassium	13500		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	83800			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P
57-12-5	Cyanide	1.6	U		AS

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SK-GW60-1031

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092332

Matrix: (soil / water) Water Lab Sample ID: 20909233224

Level: (low / med) Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18100		E	P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	3.6	B		P
7440-70-2	Calcium	146000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	18.5	B		P
7440-50-8	Copper	39.0			P
7439-89-6	Iron	42000		E	P
7439-92-1	Lead	29.4		E	P
7439-95-4	Magnesium	35100			P
7439-96-5	Manganese	1160			P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	36.7	B		P
7440-09-7	Potassium	9800		E	P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	6900			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	26.3	B		P
7440-66-6	Zinc	111			P

Color Before: DR BRWN

Clarity Before: CLEAR

Texture:

Color After: DR BRWN

Clarity After: CLEAR

Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW58-1031 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233226

Level: (low / med)

Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	60.7	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	116	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.4	B		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	5.6	B		P
7439-89-6	Iron	5.3	U		P
7439-92-1	Lead	3.0		E	P
7439-95-4	Magnesium	31200			P
7439-96-5	Manganese	25.1		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	3840	B		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	29500			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SK-GW59-1031 DISS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 209092332

Matrix: (soil / water) Water Lab Sample ID: 20909233229

Level: (low / med) Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight) : ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	61.7	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	42.0	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	204000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.5	U		P
7440-50-8	Copper	6.9	B		P
7439-89-6	Iron	5.3	U		P
7439-92-1	Lead	4.3		E	P
7439-95-4	Magnesium	41600			P
7439-96-5	Manganese	0.5	U	E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.4	U		P
7440-09-7	Potassium	18900			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	105000			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

SK-GW61-1031 DISS

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233230

Level: (low / med)

Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	26.9	U		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	24.1	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.6	B		P
7440-70-2	Calcium	296000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	0.9	B		P
7440-50-8	Copper	10.4	B		P
7439-89-6	Iron	5.3	U		P
7439-92-1	Lead	5.1		E	P
7439-95-4	Magnesium	65400			P
7439-96-5	Manganese	409		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium	12500			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	72000			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

SK-GW60-1031 DISS

Lab Name: GCAL

Contract:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 209092332

Matrix: (soil / water) Water

Lab Sample ID: 20909233231

Level: (low / med)

Date Received: 09/25/09

% Solids:

Concentration Units (ug/L or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	65.6	B		P
7440-36-0	Antimony	4.8	U		P
7440-38-2	Arsenic	3.6	U	N	P
7440-39-3	Barium	59.3	B		P
7440-41-7	Beryllium	2.3	U		P
7440-43-9	Cadmium	0.2	U		P
7440-70-2	Calcium	139000			P
7440-47-3	Chromium	0.4	U		P
7440-48-4	Cobalt	1.7	B		P
7440-50-8	Copper	6.1	B		P
7439-89-6	Iron	2420			P
7439-92-1	Lead	2.4	B	E	P
7439-95-4	Magnesium	33500			P
7439-96-5	Manganese	742		E	P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium	5980			P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	0.5	U		P
7440-23-5	Sodium	9840			P
7440-28-0	Thallium	1.5	U	N	P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	4.3	U		P

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Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

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